

Un metodo di Fattorizzazione

①

Consideriamo il prodotto:

$$N = n_1 \cdot n_2 \cdot n_3 \cdot \dots \cdot n_m \quad (1)$$

n_i primi distinti, con $n_1 < n_2 < n_3 < \dots < n_m$

p_u = prodotto di u degli n_i

p_v = prodotto dei rimanenti v degli n_i

I fattori di p_v sono diversi dai fattori di p_u

si avr  $U + V = m \quad (2)$

Poniamo: $p_u = n_{15}$ e $p_v = n_{25} \quad (3)$

Allora $N = n_{15} \cdot n_{25} \quad (4)$

Con $1 \leq v \leq 2^{m-1} - 1 \quad (5)$

Tutte le coppie ordinate (n_{15}, n_{25}) , sono distinte

Se consideriamo anche la coppia $(1, N)$, le coppie distinte sono in numero pari a: 2^{m-1}

e quindi $1 \leq v \leq 2^{m-1} \quad (6)$

Le coppie (n_{15}, n_{25}) , possono essere disposte in modo tale che n_{15} crescente, n_{25} decrescente

$$n_{15} < n_{25} \Rightarrow \frac{n_{25}}{n_{15}} > 1 \quad (7)$$

CONSIDERANDO LA (4),

IN SINTESI POSSIAMO AFFERMARE CHE CON m NUMERI PRIMI DISTINTI, SIAMO IN GRADO DI OTTENERE 2^{m-1} COPPIE ORDINATE DISTINTE

Di seguito vengono riportati alcuni esempi. ②

Es. 1; $m=2$; 3; 5

$(1; 3 \times 5) \rightarrow (1; 15);$
 $(3; 5) \rightarrow (3; 5);$

$\mu-1 = 2-1 = 1$
 $2 = 2 = 2$ due coppie distinte

Es. 2; $m=3$; 3; 5; 7;

$(1; 3 \times 5 \times 7); (1; 105)$
 $(3; 5 \times 7); (3; 35)$
 $(5; 3 \times 7); (5; 21)$
 $(7; 3 \times 5); (7; 15)$

$\mu-1 = 3-1 = 2$

$2 = 2 = 2 = 4$

Quattro coppie distinte

Es. 3; $m=4$; 3; 5; 7; 11;

$(1; 3 \times 5 \times 7 \times 11); (1; 1155)$
 $(3; 5 \times 7 \times 11); (3; 385)$
 $(5; 3 \times 7 \times 11); (5; 231)$
 $(7; 3 \times 5 \times 11); (7; 165)$
 $(11; 3 \times 5 \times 7); (11; 105)$
 $(3 \times 5; 7 \times 11); (15; 77)$
 $(3 \times 7; 5 \times 11); (21; 55)$
 $(3 \times 11; 5 \times 7); (33; 35)$

Le coppie ordinate distinte sono in numero pari a:

$\mu-1$

$4-1$

3

$2 = 2 = 2 = 8$

Esempio 4; $m=5$; 3; 5; 4; 11; 13;

(3)

(1; 3x5x7x11x13);	(1; 15015);
(3; 5x7x11x13);	(3; 5005);
(5; 3x7x11x13);	(5; 3003);
(7; 3x5x11x13);	(7; 2145);
(11; 3x5x7x13);	(11; 1365);
(13; 3x5x7x11);	(13; 1155);
(3x5; 7x11x13);	(15; 1001);
(3x7; 5x11x13);	(21; 715);
(3x11; 5x7x13);	(33; 455);
(5x7; 3x11x13);	(35; 429);
(3x13; 5x7x11);	(39; 385);
(5x11; 3x7x13);	(55; 243);
(5x13; 3x7x11);	(65; 231);
(7x11; 3x5x13);	(77; 195);
(7x13; 3x5x11);	(91; 165);
(3x5x7; 11x13);	(105; 143);

Il numero di coppie ordinate distinte è:

$$2^{m-1} = 2^{5-1} = 2^4 = 16;$$

(4)

Esempio $5, \mu=6$; 3; 5; 7; 11; 13; 17.

(4; 3x5x7x11x13x17);	(1; 255255);
(3; 5x7x11x13x17);	(3; 85085);
(5; 3x7x11x13x17);	(5; 51051);
(7; 3x5x11x13x17);	(7; 36465);
(11; 3x5x7x13x17);	(11; 23205);
(13; 3x5x7x11x17);	(13; 19635);
(3x5; 7x11x13x17);	(15; 17014);
(17; 3x5x7x11x13);	(17; 15015);
(5x7; 5x11x13x17);	(21; 12155);
(3x11; 5x7x13x17);	(33; 7735);
(5x7; 3x11x13x17);	(35; 7293);
(3x13; 5x7x11x17);	(39; 6545);
(3x17; 5x7x11x13);	(51; 5005);
(5x11; 3x7x13x17);	(55; 4644);
(5x13; 3x7x11x17);	(65; 3927);
(7x11; 3x5x13x17);	(77; 3315);
(5x17; 3x7x11x13);	(85; 3003);
(7x13; 3x5x11x17);	(91; 2805);
(3x5x7; 11x13x17);	(105; 2431);
(7x17; 3x5x11x13);	(119; 2145);
(11x13; 3x5x7x17);	(143; 1785);
(3x5x11; 7x13x17);	(165; 1549);
(11x17; 3x5x7x13);	(187; 1365);
(3x5x13; 7x11x17);	(195; 1309);

5

$(13 \times 17; 3 \times 5 \times 7 \times 11);$
 $(3 \times 7 \times 11; 5 \times 13 \times 17);$
 $(3 \times 5 \times 17; 7 \times 11 \times 13);$
 $(3 \times 7 \times 13; 5 \times 11 \times 17);$
 $(3 \times 7 \times 17; 5 \times 11 \times 13);$
 $(5 \times 7 \times 11; 13 \times 17 \times 19);$
 $(3 \times 11 \times 13; 5 \times 7 \times 17);$
 $(5 \times 7 \times 13; 3 \times 11 \times 17);$

$(221; 1155);$
 $(231; 1105);$
 $(255; 1001);$
 $(273; 935);$
 $(357; 715);$
 $(385; 663);$
 $(429; 595);$
 $(455; 561);$

Il numero di coppie ordinate distinte
è:
 $2^{m-1} = 2^{6-1} = 2^5 = 32;$

Ejemplo 6; $m=7$; 2; 3; 5; 7; 11; 13; 17

(1;	$2 \times 3 \times 5 \times 7 \times 11 \times 13 \times 17$);	(1; 510510);
(2;	$3 \times 5 \times 7 \times 11 \times 13 \times 17$);	(2; 255255);
(3;	$2 \times 5 \times 7 \times 11 \times 13 \times 17$);	(3; 170170);
(5;	$2 \times 3 \times 7 \times 11 \times 13 \times 17$);	(5; 102102);
(2x3;	$5 \times 7 \times 11 \times 13 \times 17$);	(6; 85085);
(7;	$2 \times 3 \times 5 \times 11 \times 13 \times 17$);	(7; 42930);
(2x5;	$3 \times 7 \times 11 \times 13 \times 17$);	(10; 51051);
(11;	$2 \times 3 \times 5 \times 7 \times 13 \times 17$);	(11; 46410);
(13;	$2 \times 3 \times 5 \times 7 \times 11 \times 17$);	(13; 39270);
(2x7;	$3 \times 5 \times 11 \times 13 \times 17$);	(14; 36465);
(3x5;	$2 \times 7 \times 11 \times 13 \times 17$);	(15; 34034);
(47;	$2 \times 3 \times 5 \times 7 \times 11 \times 13$);	(17; 30030);
(3x7;	$2 \times 5 \times 11 \times 13 \times 17$);	(21; 24310);
(2x11;	$3 \times 5 \times 7 \times 13 \times 17$);	(22; 23205);
(2x13;	$3 \times 5 \times 7 \times 11 \times 17$);	(26; 19635);
(2x3x5;	$7 \times 11 \times 13 \times 17$);	(30; 17017);
(3x11;	$2 \times 5 \times 7 \times 13 \times 17$);	(33; 15470);
(2x17;	$3 \times 5 \times 7 \times 11 \times 13$);	(34; 15015);
(5x7;	$2 \times 3 \times 11 \times 13 \times 17$);	(35; 14526);
(3x13;	$2 \times 5 \times 7 \times 11 \times 17$);	(39; 13090);
(2x3x7;	$5 \times 11 \times 13 \times 17$);	(42; 12155);
(3x17;	$2 \times 5 \times 7 \times 11 \times 13$);	(51; 10010);
(5x11;	$2 \times 3 \times 7 \times 13 \times 17$);	(55; 9281);
(5x13;	$2 \times 3 \times 7 \times 11 \times 17$);	(65; 7854);

- $(2 \cdot 3 \cdot 11; 5 \times 7 \times 13 \times 17); (66; 4435);$
 $(2 \cdot 5 \cdot 7; 3 \times 11 \times 13 \times 17); (70; 4293);$
 $(7 \times 11; 2 \times 3 \times 5 \times 13 \times 17); (74; 6630);$
 $(2 \times 3 \times 13; 5 \times 7 \times 11 \times 17); (78; 6545);$
 $(5 \times 17; 2 \times 3 \times 7 \times 11 \times 13); (85; 6006);$
 $(7 \times 13; 2 \times 3 \times 5 \times 11 \times 17); (91; 5610);$
 $(2 \times 3 \times 17; 5 \times 7 \times 11 \times 13); (102; 5005);$
 $(3 \times 5 \times 7; 2 \times 11 \times 13 \times 17); (105; 4862);$
 $(2 \times 5 \times 11; 3 \times 7 \times 13 \times 17); (110; 4644);$
 $(7 \times 17; 2 \times 3 \times 5 \times 11 \times 13); (119; 4290);$
 $(2 \times 5 \times 13; 3 \times 7 \times 11 \times 17); (130; 3922);$
 $(11 \times 13; 2 \times 3 \times 5 \times 7 \times 17); (143; 3570);$
 $(2 \times 7 \times 11; 3 \times 5 \times 13 \times 17); (154; 3315);$
 $(3 \times 5 \times 11; 2 \times 7 \times 13 \times 17); (165; 3094);$
 $(2 \times 5 \times 17; 3 \times 7 \times 11 \times 13); (170; 3003);$
 $(2 \times 7 \times 13; 3 \times 5 \times 11 \times 17); (182; 2805);$
 $(11 \times 17; 2 \times 3 \times 5 \times 7 \times 13); (187; 2735);$
 $(3 \times 5 \times 13; 2 \times 7 \times 11 \times 17); (195; 2618);$
 $(2 \times 3 \times 5 \times 7; 11 \times 13 \times 17); (210; 2431);$
 $(13 \times 17; 2 \times 3 \times 5 \times 7 \times 11); (221; 2310);$
 $(3 \times 7 \times 11; 2 \times 5 \times 13 \times 17); (231; 2210);$
 $(2 \times 7 \times 17; 3 \times 5 \times 11 \times 13); (238; 2145);$
 $(3 \times 5 \times 17; 2 \times 7 \times 11 \times 13); (255; 2002);$
 $(3 \times 7 \times 13; 2 \times 5 \times 11 \times 17); (273; 1870);$

- $(2 \times 11 \times 13; 3 \times 5 \times 7 \times 17); (286; 1785);$
 $(1 \times 3 \times 5 \times 11; 7 \times 13 \times 17); (330; 1547);$
 $(3 \times 7 \times 17; 2 \times 5 \times 11 \times 13); (357; 1430);$
 $(1 \times 11 \times 17; 3 \times 5 \times 7 \times 13); (374; 1365);$
 $(5 \times 7 \times 11; 2 \times 3 \times 13 \times 17); (385; 1326);$
 $(2 \times 3 \times 5 \times 13; 7 \times 11 \times 17); (390; 1309);$
 $(3 \times 11 \times 13; 2 \times 5 \times 7 \times 17); (429; 1190);$
 $(7 \times 13 \times 17; 3 \times 5 \times 7 \times 11); (442; 1155);$
 $(5 \times 7 \times 13; 2 \times 3 \times 11 \times 17); (455; 1122);$
 $(1 \times 3 \times 7 \times 11; 5 \times 13 \times 17); (462; 1105);$
 $(2 \times 3 \times 5 \times 17; 7 \times 11 \times 13); (510; 1001);$
 $(2 \times 3 \times 7 \times 13; 5 \times 11 \times 17); (546; 935);$
 $(3 \times 11 \times 17; 2 \times 5 \times 7 \times 13); (561; 910);$
 $(5 \times 7 \times 17; 2 \times 3 \times 11 \times 13); (595; 858);$
 $(3 \times 13 \times 17; 2 \times 5 \times 7 \times 11); (663; 770);$
 $(2 \times 3 \times 7 \times 17; 5 \times 11 \times 13); (714; 715);$

Il numero di coppie ordinate distinte è:

$$2^{m-1} \cdot 2^{n-1} = 2^6 = 64;$$

(9)

Riprendiamo ora il numero di coppie ordinate generate da m primi distinti.

Tali m primi possono raggrupparsi ad 1 ad 1, a 2 a 2, e così via fino ad m ad m .

Ricordando, dalla 5 bis, che il raggruppamento di n primi distinti genera 2^{n-1} coppie distinte, possiamo formulare il seguente prospetto, dove con C_s indichiamo le Comb. SORGENTE ovvero quelle manipolate da noi e con C_g le coppie generate. Inoltre con C_{st} indichiamo il totale delle Combinazioni sorgente e con C_{gt} il totale delle coppie generate.

<u>1 Elemento</u>			
	C_s	C_g	C_g
$\binom{1}{1} = 1$		1	1
	$C_{st} = 1$		$C_{gt} = 1$

<u>2 Elementi</u>			
$\binom{2}{1} = 2$	2	2	2
$\binom{2}{2} = 1$	1	2×2	2
	$C_{st} = 3$		$C_{gt} = 4$

3 Elementi

	C_s	C_g	C_g
$\binom{3}{1} =$	3	3	3
$\binom{3}{2} =$	3	3×2	6
$\binom{3}{3} =$	1	1×4	4
	$C_{st} = 7$		$C_{gt} = 13$

4 Elementi

$\binom{4}{1} =$	4	4	4
$\binom{4}{2} =$	6	6×2	12
$\binom{4}{3} =$	4	4×4	16
$\binom{4}{4} =$	1	1×8	8

$$C_{st} = 15$$

$$C_{gt} = 40$$

5 elementi

$$C_5 = 5$$

$$\binom{5}{1} = 5$$

$$C_2 = 5$$

$$C_2 = 5$$

$$\binom{5}{2} = 10$$

$$10 \times 2$$

$$20$$

$$\binom{5}{3} = 10$$

$$10 \times 4$$

$$40$$

$$\binom{5}{4} = 5$$

$$5 \times 8$$

$$40$$

$$\binom{5}{5} = 1$$

$$1 \times 16$$

$$16$$

$$C_{st} = 31$$

$$C_{gt} = 121$$

6 Elements C_5 C_4 C_2

$$\binom{6}{1} = 6$$

$$6 \times 1$$

$$6$$

$$\binom{6}{2} = 15$$

$$15 \times 2$$

$$30$$

$$\binom{6}{3} = 20$$

$$20 \times 4$$

$$80$$

$$\binom{6}{4} = 15$$

$$15 \times 8$$

$$120$$

$$\binom{6}{5} = 6$$

$$6 \times 16$$

$$96$$

$$\binom{6}{6} = 1$$

$$1 \times 32$$

$$32$$

$$C_{5t} = 63$$

$$C_{4t} = 364$$

7 Elements

C_5	C_3	C_{31}
$\binom{7}{1} = 7$	7×1	7
$\binom{7}{2} = 21$	21×2	42
$\binom{7}{3} = 35$	35×4	140
$\binom{7}{4} = 35$	35×8	280
$\binom{7}{5} = 21$	21×16	336
$\binom{7}{6} = 7$	7×32	224
$\binom{7}{7} = 1$	1×64	64

$$C_{51} = 127$$

$$C_{31} = 1093$$

8 elementi

C_s	C_j	C_g
$\binom{8}{1} = 8$	8×1	8
$\binom{8}{2} = 28$	28×2	56
$\binom{8}{3} = 56$	56×4	224
$\binom{8}{4} = 70$	70×8	560
$\binom{8}{5} = 56$	56×16	896
$\binom{8}{6} = 28$	28×32	896
$\binom{8}{7} = 8$	8×64	512
$\binom{8}{8} = 1$	1×128	128

$$C_{st} = 255$$

$$C_{gt} = 3280$$

9 Elementi

C_s	C_e	C_g
$\binom{9}{1} = 9$	9×1	9
$\binom{9}{2} = 36$	36×2	72
$\binom{9}{3} = 84$	84×4	336
$\binom{9}{4} = 126$	126×8	1008
$\binom{9}{5} = 126$	126×16	2016
$\binom{9}{6} = 84$	84×32	2688
$\binom{9}{7} = 36$	36×64	2304
$\binom{9}{8} = 9$	9×128	1152
$\binom{9}{9} = 1$	1×256	256

$$C_{st} = 511$$

$$C_{gt} = 9841$$

10 Elementi

C_s	C_g	C_z
$\binom{10}{1} = 10$	10×1	10
$\binom{10}{2} = 45$	45×2	90
$\binom{10}{3} = 120$	120×4	480
$\binom{10}{4} = 210$	210×8	1680
$\binom{10}{5} = 252$	252×16	4032
$\binom{10}{6} = 210$	210×32	6720
$\binom{10}{7} = 120$	120×64	7680
$\binom{10}{8} = 45$	45×128	5760
$\binom{10}{9} = 10$	10×256	2560
$\binom{10}{10} = 1$	1×512	512

 $C_{st} = 1023$ $C_{gt} = 29524;$

11 elements

(17)

C_s	C_2	C_{2^2}
$\left(\frac{11}{1}\right) = 11$	11×1	11
$\left(\frac{11}{2}\right) = 55$	55×2	110
$\left(\frac{11}{3}\right) = 165$	165×4	660
$\left(\frac{11}{4}\right) = 330$	330×8	2640
$\left(\frac{11}{5}\right) = 462$	462×16	7392
$\left(\frac{11}{6}\right) = 462$	462×32	14784
$\left(\frac{11}{7}\right) = 330$	330×64	21120
$\left(\frac{11}{8}\right) = 165$	165×128	21120
$\left(\frac{11}{9}\right) = 55$	55×256	14080
$\left(\frac{11}{10}\right) = 11$	11×512	5632
$\left(\frac{11}{11}\right) = 1$	1×1024	1024

 $C_{st} = 2047$ $C_{pt} = 88543$

12 Elements

(18)

C_s	C_2	C_3
$\left(\frac{12}{1}\right) = 12$	12×1	12
$\left(\frac{12}{2}\right) = 66$	66×2	132
$\left(\frac{12}{3}\right) = 220$	220×4	880
$\left(\frac{12}{4}\right) = 495$	495×8	3960
$\left(\frac{12}{5}\right) = 792$	792×16	12672
$\left(\frac{12}{6}\right) = 924$	924×32	29568
$\left(\frac{12}{7}\right) = 792$	792×64	50688
$\left(\frac{12}{8}\right) = 495$	495×128	63360
$\left(\frac{12}{9}\right) = 220$	220×256	56320
$\left(\frac{12}{10}\right) = 66$	66×512	33792
$\left(\frac{12}{11}\right) = 12$	12×1024	12288
$\left(\frac{12}{12}\right) = 1$	1×2048	2048

$$C_{ST} = 4095$$

$$C_{IT} = 265720$$

13 elements

(19)

C_2	C_2	C_2
$\binom{13}{1} = 13$	13×1	13
$\binom{13}{2} = 78$	78×2	156
$\binom{13}{3} = 286$	286×4	1144
$\binom{13}{4} = 715$	715×8	5720
$\binom{13}{5} = 1287$	1287×16	20592
$\binom{13}{6} = 1716$	1716×32	54912
$\binom{13}{7} = 1716$	1716×64	109824
$\binom{13}{8} = 1287$	1287×128	164736
$\binom{13}{9} = 715$	715×256	183040
$\binom{13}{10} = 286$	286×512	146432
$\binom{13}{11} = 78$	78×1024	79872
$\binom{13}{12} = 13$	13×2048	26624
$\binom{13}{13} = 1$	1×4096	4096

$$C_{ST} = 8191$$

$$C_{ST} = 797161$$

14 Elementi

(20)

C_5	C_8	C_2
$\binom{14}{1} = 14$	14×1	14
$\binom{14}{2} = 91$	91×2	182
$\binom{14}{3} = 364$	364×4	1456
$\binom{14}{4} = 1001$	1001×8	8008
$\binom{14}{5} = 2002$	2002×16	32032
$\binom{14}{6} = 3003$	3003×32	96096
$\binom{14}{7} = 3432$	3432×64	219648
$\binom{14}{8} = 3003$	3003×128	384384
$\binom{14}{9} = 2002$	2002×256	512512
$\binom{14}{10} = 1001$	1001×512	512512
$\binom{14}{11} = 364$	364×1024	372736
$\binom{14}{12} = 91$	91×2048	186368
$\binom{14}{13} = 14$	14×4096	57344
$\binom{14}{14} = 1$	1×8192	8192
$C_5 = 16383$	$C_8 = 2.371.484$	

15 Elemapti

(21)

C_s	C_g	C_g
$\left(\frac{15}{1}\right) = 15$	15×1	15
$\left(\frac{15}{2}\right) = 105$	105×2	210
$\left(\frac{15}{3}\right) = 455$	$455 \times$	
$\left(\frac{15}{4}\right) = 1365$	1365×8	10920
$\left(\frac{15}{5}\right) = 3003$	3003×16	48048
$\left(\frac{15}{6}\right) = 5005$	5005×32	160160
$\left(\frac{15}{7}\right) = 6435$	6435×64	411840
$\left(\frac{15}{8}\right) = 6435$	6435×128	823680
$\left(\frac{15}{9}\right) = 5005$	5005×256	1281280
$\left(\frac{15}{10}\right) = 3003$	3003×512	1537536
$\left(\frac{15}{11}\right) = 1365$	1365×1024	1399760
$\left(\frac{15}{12}\right) = 455$	455×2048	931840
$\left(\frac{15}{13}\right) = 105$	105×4096	430080
$\left(\frac{15}{14}\right) = 15$	15×8192	122880
$\left(\frac{15}{15}\right) = 1$	1×16384	16384

$C_{ST} = 32767;$

$C_{gt} = 7.174.453;$

16 Elements

(22)

C_5	C_2	C_2
$\binom{16}{1} = 16$	16×1	16
$\binom{16}{2} = 120$	120×2	240
$\binom{16}{3} = 560$	560×4	2240
$\binom{16}{4} = 1820$	1820×8	14560
$\binom{16}{5} = 4368$	4368×16	69888
$\binom{16}{6} = 8008$	8008×32	256256
$\binom{16}{7} = 11440$	11440×64	732160
$\binom{16}{8} = 12870$	12870×128	1.647.360
$\binom{16}{9} = 11440$	11440×256	2.928.640
$\binom{16}{10} = 8008$	8008×512	4.100.096
$\binom{16}{11} = 4368$	4368×1024	4.472.832
$\binom{16}{12} = 1820$	1820×2048	3.727.360
$\binom{16}{13} = 560$	560×4096	2.293.760
$\binom{16}{14} = 120$	120×8192	983040
$\binom{16}{15} = 16$	16×16384	262.144
$\binom{16}{16} = 1$	1×32768	32768
$C_{5T} = 65535$	$C_{5T} = 21523360$	

17 Elements

$$\binom{17}{1} = 17$$

$$17 \times 1$$

$$17$$

$$\binom{17}{2} = 136$$

$$136 \times 2$$

$$272$$

$$\binom{17}{3} = 680$$

$$680 \times 4$$

$$2720$$

$$\binom{17}{4} = 2380$$

$$2380 \times 8$$

$$19040$$

$$\binom{17}{5} = 6188$$

$$6188 \times 16$$

$$99008$$

$$\binom{17}{6} = 12376$$

$$12376 \times 32$$

$$396032$$

$$\binom{17}{7} = 19448$$

$$19448 \times 64$$

$$1244672$$

$$\binom{17}{8} = 24310$$

$$24310 \times 128; 3111680$$

$$\binom{17}{9} = 24310$$

$$24310 \times 256; 6223360$$

$$\binom{17}{10} = 19448$$

$$19448 \times 512; 9957376$$

$$\binom{17}{11} = 12376$$

$$12376 \times 1024; 12673024$$

$$\binom{17}{12} = 6188;$$

$$6188 \times 2048; 12673024$$

$$\left(\frac{17}{13}\right) = 2390$$

$$2390 \times 4046 : 9748480$$

$$\left(\frac{17}{14}\right) = 680$$

$$680 \times 8192 \quad 5.570560$$

$$\left(\frac{17}{15}\right) = 136$$

$$136 \times 16384 : 7.228.224$$

$$\left(\frac{17}{16}\right) = 17$$

$$17 \times 32768 \quad 557.056$$

$$\left(\frac{17}{17}\right) = 1$$

$$1 \times 65536 \quad 65536$$

$$C_{ST} = 131044$$

$$C_{PT} = 64570081;$$

18 Elements

C_s	C_2	C_2
$\binom{18}{1} = 18$	18×1	18
$\binom{18}{2} = 153$	153×2	306
$\binom{18}{3} = 816$	816×4	3264
$\binom{18}{4} = 3060$	3060×8	24480
$\binom{18}{5} = 8568$	8568×16	137088
$\binom{18}{6} = 18564$	18564×32	594048
$\binom{18}{7} = 31824$	31824×64	2036736
$\binom{18}{8} = 43758$	43758×128	5601024
$\binom{18}{9} = 48620$	48620×256	12446720
$\binom{18}{10} = 43758$	43758×512	22404096
$\binom{18}{11} = 31824$	31824×1024	32587776
$\binom{18}{12} = 18564$	18564×2048	38019072

$$\binom{18}{13} = 8568$$

$$8568 \times 4096$$

$$35094528$$

$$\binom{18}{14} = 3060$$

$$3060 \times 8192$$

$$25067520$$

$$\binom{18}{15} = 816$$

$$816 \times 16384$$

$$13369344$$

$$\binom{18}{16} = 153$$

$$153 \times 32768$$

$$5013504$$

$$\binom{18}{17} = 18$$

$$18 \times 65536$$

$$1179648$$

$$\binom{18}{18} = 1$$

$$1 \times 131072$$

$$131072$$

$$C_{ST} = 262143$$

$$C_{PT} = 193710244$$

19 Elementi

C_3	C_8	C_8
$\binom{19}{1} = 19$	19×1	19
$\binom{19}{2} = 171$	171×2	342
$\binom{19}{3} = 969$	969×4	3876
$\binom{19}{4} = 3876$	3876×8	31008
$\binom{19}{5} = 11628$	11628×16	186048
$\binom{19}{6} = 27132$	27132×32	868224
$\binom{19}{7} = 50388$	50388×64	3224832
$\binom{19}{8} = 75582$	75582×128	9674496
$\binom{19}{9} = 92378$	92378×256	23648768
$\binom{19}{10} = 92378$	92378×512	47297536
$\binom{19}{11} = 75582$	75582×1024	77395968
$\binom{19}{12} = 50388$	50388×2048	103194624

$$\left(\frac{19}{13}\right) = 27132$$

$$27132 \times 4096$$

$$111132672$$

$$\left(\frac{19}{14}\right) = 11628$$

$$11628 \times 8192$$

$$95256576$$

$$\left(\frac{19}{15}\right) = 3876$$

$$3876 \times 16384$$

$$63504384$$

$$\left(\frac{19}{16}\right) = 969$$

$$969 \times 32768$$

$$31752192$$

$$\left(\frac{19}{17}\right) = 171$$

$$171 \times 65536$$

$$11206656$$

$$\left(\frac{19}{18}\right) = 19$$

$$19 \times 131072$$

$$2490368$$

$$\left(\frac{19}{19}\right) = 1$$

$$1 \times 262144$$

$$262144$$

$$C_{ST} = 524287$$

$$C_{IT} = 581130733$$

Negli esempi precedenti abbiamo visto l'aumento delle combinazioni sorgenti e delle coppie parenti.

Per semplicità indichiamo con C_{pi} le combinazioni sorgenti Totali e con C_{pi}' le coppie parenti Totali relativi ad i numeri primi distinti.
Si può osservare che:

$$C_{p1} = 1 \quad \text{e} \quad C_{pi}' = 3C_{pi-1} + 1$$

Quindi:

$$C_{p1} = 1$$

$$C_{p2} = 3 \times 1 + 1 = 4$$

$$C_{p3} = 3(3+1)+1 = 3^2 + 3 + 3^0 = 13$$

$$C_{p4} = 3C_{p3} + 1 = 3(3^2 + 3 + 3^0) + 1 =$$

$$= 3^3 + 3^2 + 3 + 3^0 = 40$$

$$C_{p5} = 3C_{p4} + 1 = 3(3^3 + 3^2 + 3 + 3^0) + 1 =$$

$$= 3^4 + 3^3 + 3^2 + 3 + 3^0$$

$$C_{pi} = 3^{i-1} + 3^{i-2} + 3^{i-3} + 3^{i-4} + \dots + 3^0$$

Trattasi di una progressione geometrica di ragione 3 e primo Termine 1

Ricordando che:

$$S_n = a_1 \frac{(q^n - 1)}{p - 1}$$

in cui:

$$C_{pi} = 1 \times \frac{3^i - 1}{3 - 1} = \frac{3^i - 1}{2};$$

In definitiva dati i primi distinti

a $(2^i - 1)$ Combinazioni seguenti

Corrispondono $\frac{(3^i - 1)}{2}$ coppie ordinate.

Riconfermiamo ancora che abbiamo usato le formule:

$$C_{n,h} = \frac{n \cdot (n-1) \cdot (n-2) \cdot (n-3) \cdot \dots \cdot (n-h+1)}{h!}$$

$$\binom{n}{h} = \frac{n!}{h! \cdot (n-h)!}$$

$$\binom{n}{h} = \binom{n}{n-h}$$

Come abbiamo visto negli esempi da 1 a 18 elementi, il numero di combinazioni possibili è:

$$C_{si} = 2^i - 1 \quad (8)$$

Infatti considerando la formula di Newton per la potenza intera di un binomio:

$$(a+b)^n = \sum_{k=0}^n \binom{n}{k} a^{n-k} b^k \quad (9)$$

e ponendo $a=1$ e $b=1$ si ha:

$$2^n = \sum_{k=0}^n \binom{n}{k} \text{ ovvero, esistendo che } \binom{n}{0} = 1$$

$$\sum_{k=1}^n \binom{n}{k} = 2^n - 1 \quad (10)$$

Per la validità della (5) e della (6) è evidente si ripassa che considerando il solo blocco $\mu_1, \mu_2, \mu_3, \dots, \mu_n$ le coppie ordinate distinte sono la metà di 2^n , ovvero: $\frac{2^n}{2} = 2^{n-1}$

PER QUANTO RIGUARDA LE COPPIE GENERATE DALLE COMBINAZIONI SORGENTE, SI OSSERVA CHE:

$$(1+2)^n = \sum_{k=0}^n \binom{n}{k} \cdot 1^{n-k} \cdot 2^k = \sum_{k=0}^n \binom{n}{k} \cdot 2^k \quad (11)$$

OWERO:

$$3 = \sum_{k=0}^n \binom{n}{k} \cdot 2^k = \sum_{k=1}^n \binom{n}{k} \cdot 2^k + 1 \Rightarrow$$

$$3-1 = \sum_{k=1}^n \binom{n}{k} \cdot 2^k = 2 \cdot \sum_{k=1}^n \binom{n}{k} \cdot 2^{k-1} \Rightarrow$$

$$\sum_{k=1}^n \binom{n}{k} \cdot 2^{k-1} = \frac{(3-1)}{2} \quad (12)$$

Perché: $C_{gn} = \sum_{k=1}^n \binom{n}{k} 2^{k-1}$, si osserva:

$$C_{gn} = \frac{(3-1)}{2}; \quad (13)$$

Come vedremo in seguito, le quant. che manipoleremo direttamente sono le combinazioni sorgenti in numero pari a:

$$C_{si} = 2^i - 1 \quad (14)$$

mentre le coppie generate sono:

$$C_{gi} = \frac{(3^i - 1)}{2} \quad (15)$$

E ciò considerando l'insieme di i numeri primi distinti

Si osservi che per $i=25$ il rapporto tra C_{gi} e C_{si} è:

$$\begin{aligned} \frac{C_{gi}}{C_{si}} &= \frac{(3^i - 1)}{2 \cdot (2^i - 1)} = \frac{(3^{25} - 1)}{2 \cdot (2^{25} - 1)} = \\ &= 12625,5845; \end{aligned}$$

Si riportano di seguito
gli esempi relativi a

Cinque, sei e sette
numeri interi

(3; 5; 7; 11; 13)

(36)

(a)

~~3~~ 3; 5; 7; 11; 13;

(3; 5); (3, 7); (3, 11); (3; 13); (5; 7); (5, 11); (5, 13)
(7, 11); (7, 13); (11, 13).

~~3~~ (3x7; $\frac{5}{3}$; (3x7); $\frac{7}{3}$; (3x11); $\frac{11}{3}$; (3x13); $\frac{13}{3}$; (5x7); $\frac{7}{5}$;
(5x11); $\frac{11}{5}$; (5x13); $\frac{13}{5}$; (7x11); $\frac{11}{7}$; (7x13); $\frac{13}{7}$; (11x13); $\frac{13}{11}$

(3, 5, 7); (3, 5, 11); (3, 5, 13); (3, 7, 11); (3, 7, 13);
(3, 11, 13); (5, 7, 11); (5, 7, 13); (5, 11, 13); (7, 11, 13)

~~3~~ (1, 3x5x7); (3, 5x7); (5, 3x7); (7, 3x5)
(1, 3x5x11); (3, 5x11); (5, 3x11); (11, 3x5)
(1, 3x5x13); (3, 5x13); (5, 3x13); (13, 3x5)
(1, 3x7x11); (3, 7x11); (7, 3x11); (11, 3x7)
(1, 3x7x13); (3, 7x13); (7, 3x13); (13, 3x7)
(1, 3x11x13); (3, 11x13); (11, 3x13); (13, 3x11)
(1, 5x7x11); (5, 7x11); (7, 5x11); (11, 5x7)

$$(1, 5 \times 7 \times 13); (5, 7 \times 13); (7, 5 \times 13); (13, 5 \times 7). \quad (27)$$

$$(1, 5 \times 11 \times 13); (5, 11 \times 13); (11, 5 \times 13); (13, 5 \times 11)$$

$$(1, 7 \times 11 \times 13); (7, 11 \times 13); (11, 7 \times 13); (13, 7 \times 11)$$

$$(3, 5, 7, 11); (3, 5, 7, 13); (3, 7, 11, 13); (5, 7, 11, 13); (3, 5, 11, 13).$$

$$(X) (1, 3 \times 5 \times 7 \times 11); (3, 5 \times 7 \times 11); (5, 3 \times 7 \times 11); (7, 3 \times 5 \times 11)$$

$$(11, 3 \times 5 \times 7); (3 \times 5, 7 \times 11); (3 \times 7, 5 \times 11); (5 \times 7, 3 \times 11)$$

$$(1, 3 \times 5 \times 7 \times 13); (3, 5 \times 7 \times 13); (5, 3 \times 7 \times 13); (7, 3 \times 5 \times 13)$$

$$(13, 3 \times 5 \times 7); (3 \times 5, 7 \times 13); (3 \times 7, 5 \times 13); (5 \times 7, 3 \times 13)$$

$$(1, 3 \times 7 \times 11 \times 13); (3, 7 \times 11 \times 13); (7, 3 \times 11 \times 13); (11, 3 \times 7 \times 13)$$

$$(13, 3 \times 7 \times 11); (5 \times 7, 11 \times 13); (3 \times 11, 7 \times 13); (7 \times 11, 3 \times 13)$$

$$(1, 5 \times 7 \times 11 \times 13); (5, 7 \times 11 \times 13); (7, 5 \times 11 \times 13); (11, 5 \times 7 \times 13)$$

$$(13, 5 \times 7 \times 11); (5 \times 7, 11 \times 13); (5 \times 11, 7 \times 13); (7 \times 11, 5 \times 13)$$

$$(1, 3 \times 5 \times 11 \times 13); (3, 5 \times 11 \times 13); (5, 3 \times 11 \times 13); (11, 3 \times 5 \times 13)$$

$$(13, 3 \times 5 \times 11); (3 \times 5, 11 \times 13); (3 \times 11, 5 \times 13); (5 \times 11, 3 \times 13)$$

(38)

$(3, 5, 7, 11, 13)$.

$(1, 3 \times 5 \times 7 \times 11 \times 13), (3, 5 \times 7 \times 11 \times 13), (5, 3 \times 7 \times 11 \times 13)$

$(7, 3 \times 5 \times 11 \times 13), (11, 3 \times 5 \times 7 \times 13), (13, 3 \times 5 \times 7 \times 11)$

$(3 \times 5, 7 \times 11 \times 13), (3 \times 7, 5 \times 11 \times 13), (3 \times 11, 5 \times 7 \times 13);$

$(5 \times 7, 3 \times 11 \times 13), (3 \times 13, 5 \times 7 \times 11), (5 \times 11, 3 \times 7 \times 13);$

$(5 \times 13, 3 \times 7 \times 11), (7 \times 11, 3 \times 5 \times 13), (7 \times 13, 3 \times 5 \times 11)$

~~2~~
 $(11 \times 13, 3 \times 5 \times 7).$

(3, 5, 7, 11, 13)

(39)

(51)

3;

5;

7;

11;

13;

15;

$\frac{2}{3}$;

21;

7;

$\frac{1}{3}$;

33;

$\frac{11}{3}$;

39

$\frac{13}{3}$

35

$\frac{4}{5}$

55

$\frac{11}{5}$;

65;

$\frac{13}{5}$

71

$\frac{11}{7}$

81

$\frac{13}{7}$

143

$\frac{13}{11}$

~~105~~

$\frac{35}{3}$

$\frac{21}{5}$

$\frac{15}{7}$

465

$\frac{55}{3}$;

$\frac{33}{5}$

$\frac{15}{11}$

195;

$\frac{65}{3}$;

$\frac{39}{5}$

$\frac{15}{13}$

231

$\frac{91}{3}$

$\frac{33}{7}$

$\frac{21}{11}$

273

$\frac{91}{3}$;

$\frac{39}{7}$

$\frac{21}{13}$

429

$\frac{143}{3}$

$\frac{39}{11}$

$\frac{33}{13}$;

~~385~~

$\frac{77}{5}$;

$\frac{55}{7}$

$\frac{35}{11}$;

455

$\frac{81}{5}$

677

$\frac{35}{13}$

715

$\frac{143}{5}$

$\frac{65}{11}$

$\frac{55}{13}$

1001;

$\frac{143}{7}$

$\frac{91}{11}$;

$\frac{77}{13}$

1155;

$\frac{385}{3}$;	$\frac{39}{35}$	$\frac{385}{98}$;	45015 ;	$\frac{213}{55}$	(40)
$\frac{231}{5}$;	39	$\frac{143}{35}$	$5005/3$	$\frac{231}{65}$	
$\frac{165}{7}$;	3003 ;	$\frac{81}{55}$	$903/5$	$\frac{185}{77}$	
$\frac{105}{11}$;	$\frac{1001}{3}$;	$\frac{77}{65}$	$0145/7$	$\frac{165}{91}$	
$\frac{77}{15}$;	$\frac{429}{7}$	2145	$4365/11$	$\frac{143}{105}$;	
$\frac{55}{22}$;	$\frac{273}{11}$	$\frac{715}{3}$	$1155/13$		
$\frac{35}{33}$;	$\frac{231}{13}$	$\frac{429}{5}$	$1001/15$		
1365	$\frac{143}{35}$	$\frac{195}{21}$	$715/21$		
$\frac{455}{3}$	$\frac{81}{33}$	$\frac{165}{13}$;	$455/33$ -		
$\frac{231}{5}$	$\frac{77}{39}$	$\frac{143}{15}$	1001/15		
$\frac{295}{7}$	5005 ;	$\frac{65}{33}$	455/33		
$\frac{05}{13}$;	$\frac{1001}{5}$	$\frac{55}{39}$;	1001/15		
$\frac{91}{15}$;	$\frac{715}{7}$;		455/33		
$\frac{65}{24}$;	$\frac{455}{14}$;		$\frac{429}{35}$		
			$\frac{385}{39}$;		

(3) 5; 14; 12; 13)

(2L) (C)

3
5
7
11
13
15
1,666667;
21
2,333333;
33
3,666667;
39
4,333333
35
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55
2,200000
65
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77
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91
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143
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105
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1,363636
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7,800000;
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2,538462;
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7,857143;
3,181818
755

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9,545455;
5,133333
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1365
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46,200000
27,857143
8,076923.
6,066667;
3,095238
1,14286.

(3; 5; 4; 12; 13)

3
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13
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21
2,333333;
33
3,666667;
39
4,333333
35
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55
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65
2,600000
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91
1,857143
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105
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4,200000;
2,142851;
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18,333333;
6,600000
1,363636
195
21,666667;
7,800000;
1,153846;
231
25,666667;
4,714286;
1,909091;
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5,571429;
1,615385
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47,666667;
3,545455
4,538462;
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7,857143;
3,181818
755

(42) (C)

18,200000;
9,285714;
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4,230769
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20,428571
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5,923077;
1155.
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46,200000.
23,571429;
9,545455;
5,133333
2,619048.
1,060606;
1365
251,666666
46,200000;
27,857143;
8,076923.
6,066667;
3,095238
1,14286.

3003
333, 666664;
61, 285714;
24, 818182
17, 769231;
4, 085714;
2, 757576;
1, 974359;
5005
200, 200000
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41, 363636;
29, 615385
4, 085714;
1, 654545;
1, 184615;
2145
238, 333333
85, 800000
17, 727273.
12, 692308;
9, 533333
1, 968687
1, 410256
15015
1668, 333333.
600, 600000;

306, 428571.
124, 090909;
88, 692308;
66, 733333.
34, 047619;
13, 787878;
12, 257143;
9, 871785;
3, 872727
3, 553846;
4, 753247;
1, 813187;
1, 361805;

(43)

44

$$C_{55} = 31; \quad C_{85} = 121;$$

(2, 3, 5, 7, 11, 13)

①
45

(*) 2, 3, 5, 7, 11, 13 #

(2, 3), (2, 5), (2, 7), (2, 11), (2, 13)

(3, 5), (3, 7), (3, 11), (3, 13)

(5, 7), (5, 11), (5, 13)

(7, 11), (7, 13)

(11, 13)

(*) $(2 \times 3), \frac{3}{2}, (2 \times 5), \frac{5}{2}, (2 \times 7), \frac{7}{2}, (2 \times 11), \frac{11}{2}, (2 \times 13), \frac{13}{2}$;

$(3 \times 5), \frac{5}{3}, (3 \times 7), \frac{7}{3}, (3 \times 11), \frac{11}{3}, (3 \times 13), \frac{13}{3}$;

$(5 \times 7), \frac{7}{5}, (5 \times 11), \frac{11}{5}, (5 \times 13), \frac{13}{5}$;

$(7 \times 11), \frac{11}{7}, (7 \times 13), \frac{13}{7}$;

$(11 \times 13), \frac{13}{11}$ #

(2, 3, 5), (2, 3, 7), (2, 3, 11), (2, 3, 13), (2, 5, 7), (2, 5, 11), (2, 5, 13)

(2, 7, 11), (2, 7, 13), (2, 11, 13), (3, 5, 7), (3, 5, 11), (3, 5, 13)

(3, 7, 11), (3, 7, 13), (3, 11, 13), (5, 7, 11), (5, 7, 13), (5, 11, 13)

(7, 11, 13);

(*)

(46)

- $(1; 2 \times 3 \times 5); (2; 3 \times 5); (3; 2 \times 5); (5; 2 \times 3);$
 $(1; 2 \times 3 \times 7); (2; 3 \times 7); (3; 2 \times 7); (7; 2 \times 3);$
 $(1; 2 \times 3 \times 11); (2; 3 \times 11); (3; 2 \times 11); (11; 2 \times 3);$
 $(1; 2 \times 3 \times 13); (2; 3 \times 13); (3; 2 \times 13); (13; 2 \times 3);$
 $(1; 2 \times 5 \times 7); (2; 5 \times 7); (5; 2 \times 7); (7; 2 \times 5);$
 $\rightarrow (1; 2 \times 5 \times 11); (2; 5 \times 11); (5; 2 \times 11); (11; 2 \times 5);$
 $(1; 2 \times 5 \times 13); (2; 5 \times 13); (5; 2 \times 13); (13; 2 \times 5);$
 $(1; 2 \times 7 \times 11); (2; 7 \times 11); (7; 2 \times 11); (11; 2 \times 7);$
 $(1; 2 \times 7 \times 13); (2; 7 \times 13); (7; 2 \times 13); (13; 2 \times 7);$
 $(1; 2 \times 11 \times 13); (2; 11 \times 13); (11; 2 \times 13); (13; 2 \times 11);$
 $(1; 3 \times 5 \times 7); (3; 5 \times 7); (5; 3 \times 7); (7; 3 \times 5);$
 $(1; 3 \times 5 \times 11); (3; 5 \times 11); (5; 3 \times 11); (11; 3 \times 5);$
 $(1; 3 \times 5 \times 13); (3; 5 \times 13); (5; 3 \times 13); (13; 3 \times 5);$
 $(1; 3 \times 7 \times 11); (3; 7 \times 11); (7; 3 \times 11); (11; 3 \times 7);$
 $(1; 3 \times 7 \times 13); (3; 7 \times 13); (7; 3 \times 13); (13; 3 \times 7);$
 $(1; 3 \times 11 \times 13); (3; 11 \times 13); (11; 3 \times 13); (13; 3 \times 11);$
 $(1; 5 \times 7 \times 11); (5; 7 \times 11); (7; 5 \times 11); (11; 5 \times 7);$
 $(1; 5 \times 7 \times 13); (5; 7 \times 13); (7; 5 \times 13); (13; 5 \times 7);$
 $(1; 5 \times 11 \times 13); (5; 11 \times 13); (11; 5 \times 13); (13; 5 \times 11);$
 $(1; 7 \times 11 \times 13); (7; 11 \times 13); (11; 7 \times 13); (13; 7 \times 11);$

$(2, 3, 5, 7), (2, 3, 5, 11), (2, 3, 5, 13)$

(24)

$(2, 3, 7, 11), (2, 3, 7, 13), (2, 3, 11, 13)$

$(2, 5, 7, 11), (2, 5, 7, 13), (2, 5, 11, 13)$

$(2, 7, 11, 13)$

$(3, 5, 7, 11), (3, 5, 7, 13), (3, 5, 11, 13)$

$(3, 7, 11, 13), (5, 7, 11, 13)$

(2)

(48)

- (1, 2x3x5x7), (2, 3x5x7), (3, 2x5x7), (5, 2x3x7),
(7, 2x3x5), (2x3, 5x7), (2x5, 3x7), (2x7, 3x5),
(1, 2x3x5x11), (2, 3x5x11), (3, 2x5x11), (5, 2x3x11),
(11, 2x3x5), (2x3, 5x11), (2x5, 3x11), (2x11, 3x5),
(1, 2x3x5x13), (2, 3x5x13), (3, 2x5x13), (5, 2x3x13),
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(1, 2x3x7x11), (2, 3x7x11), (3, 2x7x11), (7, 2x3x11),
(11, 2x3x7), (2x3, 7x11), (2x7, 3x11), (2x11, 3x7),
(1, 2x3x7x13), (2, 3x7x13), (3, 2x7x13), (4, 2x3x13),
(13, 2x3x7), (2x3, 7x13), (2x7, 3x13), (2x13, 3x7),
(1, 2x3x11x13), (2, 3x11x13), (3, 2x11x13), (11, 2x3x13),
(13, 2x3x11), (2x3, 11x13), (2x11, 3x13), (2x13, 3x11),
(1, 2x5x7x11), (2, 5x7x11), (5, 2x7x11), (7, 2x5x11),
(11, 2x5x7), (2x5, 7x11), (2x7, 5x11), (2x11, 5x7),
(1, 2x5x7x13), (2, 5x7x13), (5, 2x7x13), (7, 2x5x13),
(13, 2x5x7), (2x5, 7x13), (2x7, 5x13), (2x13, 5x7),
(1, 2x5x11x13), (2, 5x11x13), (5, 2x11x13), (11, 2x5x13),
(13, 2x5x11), (2x5, 11x13), (2x11, 5x13), (2x13, 5x11),
(1, 2x7x11x13), (2, 7x11x13), (7, 2x11x13), (11, 2x7x13),
(13, 2x7x11), (2x7, 11x13), (2x11, 7x13), (2x13, 7x11),
(1, 3x5x7x11), (3, 5x7x11), (5, 3x7x11), (7, 3x5x11),
(11, 3x5x7), (3x5, 7x11), (3x7, 5x11), (3x11, 5x7),

(49)

(1, 3x5x7x13) (3, 5x7x13) (5, 3x7x13) (7, 3x5x13)

(13, 3x5x7) (3x5, 7x13) (3x7, 5x13) (3x13, 5x7)

(1, 3x5x11x13) (3, 3x11x13) (5, 3x11x13) (11, 3x5x13)

(13, 3x5x11) (3x5, 11x13) (3x11, 5x13) (3x13, 5x11)

(1, 3x7x11x13) (3, 7x11x13) (7, 3x11x13) (11, 3x7x13)

(13, 3x7x11) (3x7, 11x13) (3x11, 7x13) (3x13, 7x11)

(1, 5x7x11x13) (5, 7x11x13) (7, 5x11x13) (11, 5x7x13)

(13, 5x7x11) (5x7, 11x13) (5x11, 7x13) (5x13, 7x11)

$(2, 3, 5, 7, 11, 13);$

③

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$(2, 3, 5, 7, 11), (2, 5, 7, 11, 13), (2, 3, 7, 11, 13);$

$(2, 3, 5, 11, 13), (2, 3, 5, 7, 13), (3, 5, 7, 11, 13);$

(*) $(1, 2 \times 3 \times 5 \times 7 \times 11), (2, 3 \times 5 \times 7 \times 11), (3, 2 \times 5 \times 7 \times 11);$

$(5, 2 \times 3 \times 7 \times 11), (7, 2 \times 3 \times 5 \times 11), (11, 2 \times 3 \times 5 \times 7);$

$(2 \times 3, 5 \times 7 \times 11), (2 \times 5, 3 \times 7 \times 11), (2 \times 7, 3 \times 5 \times 11);$

$(2 \times 11, 3 \times 5 \times 7), (3 \times 5, 2 \times 7 \times 11), (3 \times 7, 2 \times 5 \times 11);$

$(3 \times 11, 2 \times 5 \times 7), (5 \times 7, 2 \times 3 \times 11), (5 \times 11, 2 \times 3 \times 7);$

$(7 \times 11, 2 \times 3 \times 5);$

$(1, 2 \times 5 \times 7 \times 11 \times 13), (2, 5 \times 7 \times 11 \times 13), (5, 2 \times 7 \times 11 \times 13);$

$(7, 2 \times 5 \times 11 \times 13), (11, 2 \times 5 \times 7 \times 13), (13, 2 \times 5 \times 7 \times 11);$

$(2 \times 5, 7 \times 11 \times 13), (2 \times 7, 5 \times 11 \times 13), (2 \times 11, 5 \times 7 \times 13);$

$(2 \times 13, 5 \times 7 \times 11), (5 \times 7, 2 \times 11 \times 13), (5 \times 11, 2 \times 7 \times 13);$

$(5 \times 13, 2 \times 7 \times 11), (7 \times 11, 2 \times 5 \times 13), (7 \times 13, 2 \times 5 \times 11);$

$(11 \times 13, 2 \times 5 \times 7);$

(51)

$$\begin{aligned}
 & (1, 2 \times 3 \times 7 \times 11 \times 13); (2, 2 \times 7 \times 11 \times 13); (3, 2 \times 7 \times 11 \times 13); \\
 & (4, 2 \times 3 \times 11 \times 13); (11, 2 \times 3 \times 7 \times 13); (13, 2 \times 3 \times 7 \times 11); \\
 & (2 \times 3, 7 \times 11 \times 13); (2 \times 7, 3 \times 11 \times 13); (2 \times 11, 3 \times 7 \times 13); \\
 & (2 \times 13, 3 \times 7 \times 11); (3 \times 7, 2 \times 11 \times 13); (3 \times 11, 2 \times 7 \times 13); \\
 & (3 \times 13, 2 \times 7 \times 11); (7 \times 11, 2 \times 3 \times 13); (7 \times 13, 2 \times 3 \times 11); \\
 & (11 \times 13, 2 \times 3 \times 7);
 \end{aligned}$$

$$\begin{aligned}
 & (1, 2 \times 3 \times 5 \times 11 \times 13); (2, 3 \times 5 \times 11 \times 13); (3, 2 \times 5 \times 11 \times 13); \\
 & (5, 2 \times 3 \times 11 \times 13); (11, 2 \times 3 \times 5 \times 13); (13, 2 \times 3 \times 5 \times 11); \\
 & (2 \times 3, 5 \times 11 \times 13); (2 \times 5, 3 \times 11 \times 13); (2 \times 11, 3 \times 5 \times 13); \\
 & (2 \times 13, 3 \times 5 \times 11); (3 \times 5, 2 \times 11 \times 13); (3 \times 11, 2 \times 5 \times 13); \\
 & (3 \times 13, 2 \times 5 \times 11); (5 \times 11, 2 \times 3 \times 13); (5 \times 13, 2 \times 3 \times 11); \\
 & (11 \times 13, 2 \times 3 \times 5);
 \end{aligned}$$

$$\begin{aligned}
 & (1, 2 \times 3 \times 5 \times 7 \times 13); (2, 3 \times 5 \times 7 \times 13); (3, 2 \times 5 \times 7 \times 13); \\
 & (5, 2 \times 3 \times 7 \times 13); (7, 2 \times 3 \times 5 \times 13); (13, 2 \times 3 \times 5 \times 7); \\
 & (2 \times 3, 5 \times 7 \times 13); (2 \times 5, 3 \times 7 \times 13); (2 \times 7, 3 \times 5 \times 13); \\
 & (2 \times 13, 3 \times 5 \times 7); (3 \times 5, 2 \times 7 \times 13); (3 \times 7, 2 \times 5 \times 13); \\
 & (3 \times 13, 2 \times 5 \times 7); (5 \times 7, 2 \times 3 \times 13); (5 \times 13, 2 \times 3 \times 7); \\
 & (7 \times 13, 2 \times 3 \times 5);
 \end{aligned}$$

(52)

$(1; 3 \times 5 \times 7 \times 11 \times 13); (3; 5 \times 7 \times 11 \times 13); (5; 3 \times 7 \times 11 \times 13);$
 $(7; 3 \times 5 \times 11 \times 13); (11; 3 \times 5 \times 7 \times 13); (13; 3 \times 5 \times 7 \times 11);$
 $(3 \times 5; 7 \times 11 \times 13); (3 \times 7; 5 \times 11 \times 13); (3 \times 11; 5 \times 7 \times 13);$
 $(3 \times 13; 5 \times 7 \times 11); (5 \times 7; 3 \times 11 \times 13); (5 \times 11; 3 \times 7 \times 13);$
 $(5 \times 13; 3 \times 7 \times 11); (7 \times 11; 3 \times 5 \times 13); (7 \times 13; 3 \times 5 \times 11);$
 $(11 \times 13; 3 \times 5 \times 7);$

(2; 3, 5, 7, 11, 13)

④

53

(1; 2x3x5x7x11x13); (2; 3x5x7x11x13);

(3; 2x5x7x11x13); (5; 2x3x7x11x13);

(7; 2x3x5x11x13); (11; 2x3x5x7x13);

(13; 2x3x5x7x11); (2x3; 5x7x11x13);

(2x5; 3x7x11x13); (2x7; 3x5x11x13);

(2x11; 3x5x7x13); (2x13; 3x5x7x11);

(3x5; 2x7x11x13); (3x7; 2x5x11x13);

(3x11; 2x5x7x13); (3x13; 2x5x7x11);

(5x7; 2x3x11x13); (5x11; 2x3x7x13);

(5x13; 2x3x7x11); (7x11; 2x3x5x13);

(7x13; 2x3x5x11); (11x13; 2x3x5x7);

(2x3x5; 7x11x13); (2x3x7; 5x11x13);

(2x3x11; 5x7x13); (2x3x13; 5x7x11);

(2x5x7; 3x11x13); (2x5x11; 3x7x13);

(2x5x13; 3x7x11); (2x7x11; 3x5x13);

(2x7x13; 3x5x11); (2x11x13; 3x5x7);

~~(2, 3, 5, 7, 11, 13)~~

(54)

2;	1,400000;	8,666664;	1,692308
3;	55	2,166667;	105.
5;	2,200000;	70	14,666667;
7;	65	17,500000;	4,200000.
11;	2,600000;	2,800000;	2,142857;
13;	44;	1,428571;	165.
6'	1,571429;	110	18,333333;
1,500000;	91	27,500000;	6,600000.
10	1,857143;	4,400000.	1,363636;
2,500000;	143;	1,100000;	195
14	1,181818;	130.	21,666667;
3,500000;	30	32,500000;	9,800000.
22	7,500000;	5,200000;	1,153846;
5,500000;	3,333333	1,300000;	231
26	3,200000;	154	25,666667;
6,500000;	42	38,500000;	4,714286;
15	10,500000;	3,142857;	1,909091;
1,666667;	4,666667;	1,272727	223
21	1,666667;	182.	30,333333.
2,333333;	66;	45,500000;	5,571429;
33	16,500000;	3,714286;	1,615385;
3,666667.	7,333333.	1,076923;	429.
39	1,833333;	286;	47,666667.
4,333333	78	21,500000	3,545455.
35	19,500000;	2,363636	2,538462.

385.	82,500000;	60,666667;	18571429.
15,400000;	36,666664;	11,142857;	5,384615; (55)
4,857143;	13200000;	3,230769;	9,100000;
3,181818	2,727273;	15,166667;	4,642857;
455	9,166664;	2,785714;	1,346154;
18,200000;	3,300000;	1,238095;	1430;
9,285714;	1,466664;	858	351,500000.
2,692308;	390.	214,500000;	57,200000
415;	97,500000;	95,333333	11,818182;
28,600000;	43,333333;	4,090909;	8,461538;
5,909091;	15,600000;	5,046923;	14,300000;
4,230769;	2,304692;	23,833333;	2,954545
1001;	10,833333	1,777777.	2,115385
20,428571;	3,900000;	1,269231;	2002.
8,272727;	1,733333;	440.	500,500000;
5,923077;	462.	192,500000;	40,857143;
210;	115,500000;	39,800000.	16,545455;
22,500000;	51,333333;	15,714286;	11,846154;
23,333333;	9,428571;	6,363636.	10,214286;
8,400000;	3,818182;	4,700000;	4,136364;
4,285714;	12,833333;	3,928571;	2,961538;
5,833333	2,357143;	1,590909;	1155
2,100000;	1,047619;	910	128,333333;
1,071429;	546	227,500000;	46,200000.
330;	136,500000;	36,400000;	23,571429;

9,545455	6,809524	1,309524.	30,642857;
5,133333.	2,757526	2,566664;	12,409091;
2,619048	1,974359.	10010.	8,884615.
1,060606.	5005	9502,500000;	13,619048.
1365;	909,200000.	400,400000.	5,515152.
151,666664;	102,142857;	204,285714;	3,948718
54,600000;	41,363636.	82,727273;	1,012987.
27,857143;	29,615385;	59,230769;	1,378488;
8,076923;	4,085714.	100,100000;	3,404762
6,066664;	1,654545	51,071429;	4290
3,095238;	1,184615;	20,681818;	1072,500000
1,114286;	2310	14,807692;	476,666664;
2145	577,500000;	8,171429.	171,600000;
238,333333;	256666664;	3,309081;	35,454545;
85,800000;	92,400000;	2,389231.	25,384615;
17,727273;	47,142857;	1,688312;	119,166664.
12,692308;	19,090909;	1,208791;	42,900000;
9,533333	64,166664;	2,04257;	8,863636.
1,969697	93,100000;	6006;	6,346154.
1,410256;	11,785414;	1501,500000;	19,066664
2003.	4,772727;	667,333333;	3,939394.
333,666667;	10,266664;	122,571429;	2,829513;
61,285714;	5,238095	49,636366;	1,418182.
24,818182;	2,121212	35,538462	1,015385
17,769231	1,885714;	166,833333;	4,266667;

385.	82,500000;	60,666667;	18571429. (57)
15,400000;	36,666664;	11,142857;	5,384615;
4,857143;	13200000;	3,230769;	9,100000;
3,181818	2,727273;	15,166667;	4,642857;
455	9,166667;	2,785714;	1,346154;
18,200000;	3,300000;	1,238095;	1430;
9,285714;	1,466667;	858	351,500000.
2,692308;	390.	214,500000;	57,200000
715.	97,500000.	95,333333.	11,818182;
28,600000;	43,333333;	4,090909;	8,461538;
5,909091;	15,600000;	5,046923;	14,300000;
4,230769;	2,304692;	23,833333;	2,954545
1001.	10,833333	1,777777.	2,115385
20,428571;	3,900000;	1,269231;	2002.
8,272727;	1,733333;	740.	500,500000;
5,923077;	462.	192,500000;	40,857143;
210.	115,500000;	39,800000.	16,545455;
52,500000;	51,333333;	15,714286;	11,846154;
23,333333;	9,428571;	6,363636.	10,214286;
8,400000;	3,818182;	7,700000;	4,136364;
4,285714;	12,833333;	3,928571;	2,961538;
5,833333	2,357143;	1,590909;	1155
2,100000;	1,047619;	910	128,333333;
1,071429;	546	227,500000;	46,200000.
330;	136,500000;	36,400000;	23,571429;

(2; 3; 5; 7; 11; 13)

(58)

1,012987	2,142857	4,642857	10,5	27,57576	92,4	667,3333
1,015385	2,166667	4,666667	10,83333	27,85714	95,33333	682,5
1,047619	2,2	4,714286	11	28,6	97,5	715
1,060606	2,228571	4,766667	11,14286	29,61539	100,1	770
1,071429	2,307692	4,772727	11,66667	30	102,1429	834,1667
1,076923	2,333333	4,935897	11,78571	30,33333	105	858
1,1	2,357143	4,963636	11,81818	30,64286	109,2	910
1,10303	2,363636	5	11,84615	30,8	110	1001
1,114286	2,369231	5,064935	12,13333	32,5	115,5	1072,5
1,153846	2,481818	5,076923	12,25714	32,5	119,1667	1155
1,1666667	2,5	5,133333	12,40909	33	122,5714	1201,2
1,181818	2,532468	5,2	12,69231	33,36667	124,0909	1365
1,184615	2,538468	5,238095	12,83333	34,04762	128,3333	1430
1,208791	2,545455	5,384615	13	35	130	1501,5
1,238095	2,566667	5,5	13,2	35,45455	133,4667	1668,333
1,266234	2,6	5,515152	13,61905	35,53846	136,5	2002
1,269231	2,619048	5,571429	13,78788	36,4	143	2145
1,272727	2,692308	5,833333	13,92857	36,66667	151,6667	2310
1,3	2,72381	5,909091	14	39	153,2143	2502,5
1,309524	2,727273	5,923077	14,3	40,85714	154	2730
1,346154	2,757576	6	14,80769	41,36364	165	3003
1,361905	2,785714	6,066667	15	42	166,2333	3336,667
1,363636	2,8	6,128571	15,16667	42,9	171,6	4290
1,378788	2,820513	6,190476	15,4	43,33333	177,6923	5005
1,4	2,954545	6,346154	15,6	44,42308	182	6006
1,410256	2,961538	6,363636	15,71429	45,5	192,5	7507,5
1,418182	3	6,5	16,15385	46,7	195	10010
1,422571	3,033333	6,6	16,5	47,14286	200,2	30030
1,466667	3,095238	6,809524	16,54546	47,66667	204,2857	
1,468531	3,142857	6,893939	17,02381	49,63636	210	
1,5	3,181818	7	17,5	51,07143	214,5	
1,5015	3,2	7,090909	17,72727	51,33333	227,5	
1,547619	3,230769	7,107692	17,76923	52,5	231	
1,571429	3,3	7,333333	18,2	54,6	238,3333	
1,590909	3,309091	7,5	18,33333	55	248,1818	
1,615385	3,333333	7,7	18,57143	55,71421	256,6667	
1,654545	3,404762	7,8	19,06667	57,2	273	
1,666667	3,5	7,857143	19,09091	59,34077	286	
1,688312	3,545455	8,171429	19,5	60,66667	300,3	
1,692308	3,553846	8,272727	19,74359	61,28571	303,3333	
1,733333	3,626374	8,4	20,42857	62,04546	306,4286	
1,772727	3,666667	8,461538	20,68182	64,16667	330	
1,776923	3,714286	8,666667	21	65	333,6667	
1,794872	3,818182	8,863636	21,66667	66	351,5	
1,813197	3,9	8,884615	22	66,73333	385	
1,833333	3,928571	8,976923	23,1	68,09524	390	
1,857143	3,939394	9,1	23,33333	70	400,4	
1,885714	3,948718	9,166667	23,57143	71,5	429	
1,909091	4,038462	9,285714	23,83333	75,83333	455	
1,969697	4,085714	9,428571	24,51429	77	462	
1,974359	4,136364	9,533333	24,81818	78	476,6667	
2	4,2	9,871795	25,38462	82,5	500,5	
2,04257	4,230769	9,927273	25,66667	82,72727	546	
2,1	4,285714	10	26	85,8	577,5	
2,115385	4,333333	10,21489	27,3	88,84615	600,6	
2,121212	4,4	10,26667	27,5	91	612,8571	

$C_{56} = 63$; $C_{86} = 364$;

(2, 3, 5, 7, 11, 13, 17)

(59)

(1)

(*) 2, 3, 5, 7, 11, 13, 17;

Tot. p → 7

(2, 3), (2, 5), (2, 7), (2, 11), (2, 13), (2, 17)

(3, 5), (3, 7), (3, 11), (3, 13), (3, 17)

(5, 7), (5, 11), (5, 13), (5, 17)

(7, 11), (7, 13), (7, 17)

(11, 13), (11, 17)

(13, 17)

(*) • (2x3); $\frac{3}{2}$; (2x5); $\frac{5}{2}$; (2x7); $\frac{7}{2}$; (2x11); $\frac{11}{2}$; (2x13); $\frac{13}{2}$; (2x17); $\frac{17}{2}$

• (3x5); $\frac{5}{3}$; (3x7); $\frac{7}{3}$; (3x11); $\frac{11}{3}$; (3x13); $\frac{13}{3}$; (3x17); $\frac{17}{3}$

(5x7); $\frac{7}{5}$; (5x11); $\frac{11}{5}$; (5x13); $\frac{13}{5}$; (5x17); $\frac{17}{5}$;

• (7x11); $\frac{11}{7}$; (7x13); $\frac{13}{7}$; (7x17); $\frac{17}{7}$;

(11x13); $\frac{13}{11}$; (11x17); $\frac{17}{11}$;

• (13x17); $\frac{17}{13}$;

Tot. p 42

(2, 3, 5, 7, 11, 13, 17)

(2, 3, 5), (2, 3, 7), (2, 3, 11), (2, 3, 13), (2, 3, 17),
(2, 5, 7), (2, 5, 11), (2, 5, 13), (2, 5, 17),
(2, 7, 11), (2, 7, 13), (2, 7, 17),
(2, 11, 13), (2, 11, 17),
(2, 13, 17),

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(3, 5, 7), (3, 5, 11), (3, 5, 13), (3, 5, 17),
(3, 7, 11), (3, 7, 13), (3, 7, 17),
(3, 11, 13), (3, 11, 17), (3, 13, 17),
(5, 7, 11), (5, 7, 13), (5, 7, 17),
(5, 11, 13), (5, 11, 17), (5, 13, 17),
(7, 11, 13), (7, 11, 17), (7, 13, 17),
(11, 13, 17).

(*) (1, 2x3x5), (2, 3x5), (3, 2x5), (5, 2x3),
(1, 2x3x7), (2, 3x7), (3, 2x7), (7, 2x3),
(1, 2x3x11), (2, 3x11), (3, 2x11), (11, 2x3),
(1, 2x3x13), (2, 3x13), (3, 2x13), (13, 2x3),
(1, 2x3x17), (2, 3x17), (3, 2x17), (17, 2x3),
(1, 2x5x7), (2, 5x7), (5, 2x7), (7, 2x5),
(1, 2x5x11), (2, 5x11), (5, 2x11), (11, 2x5),
(1, 2x5x13), (2, 5x13), (5, 2x13), (13, 2x5),
(1, 2x5x17), (2, 5x17), (5, 2x17), (17, 2x5).

$$(1, 2 \times 7 \times 11), (2, 7 \times 11), (7, 2 \times 11), (11, 2 \times 7),$$

$$(1, 2 \times 7 \times 13), (2, 7 \times 13), (7, 2 \times 13), (13, 2 \times 7)$$

$$(1, 2 \times 7 \times 17), (2, 7 \times 17), (7, 2 \times 17), (17, 2 \times 7);$$

$$(1, 2 \times 11 \times 13), (2, 11 \times 13), (11, 2 \times 13), (13, 2 \times 11);$$

$$(1, 2 \times 11 \times 17), (2, 11 \times 17), (11, 2 \times 17), (17, 2 \times 11);$$

$$(1, 2 \times 13 \times 17), (2, 13 \times 17), (13, 2 \times 17), (17, 2 \times 13);$$

$$(1, 3 \times 5 \times 7), (3, 5 \times 7), (5, 3 \times 7), (7, 3 \times 5);$$

$$(1, 3 \times 5 \times 11), (3, 5 \times 11), (5, 3 \times 11), (11, 3 \times 5);$$

$$(1, 3 \times 5 \times 13), (3, 5 \times 13), (5, 3 \times 13), (13, 3 \times 5);$$

$$(1, 3 \times 5 \times 17), (3, 5 \times 17), (5, 3 \times 17), (17, 3 \times 5);$$

$$(1, 3 \times 7 \times 11), (3, 7 \times 11), (7, 3 \times 11), (11, 3 \times 7);$$

$$(1, 3 \times 7 \times 13), (3, 7 \times 13), (7, 3 \times 13), (13, 3 \times 7);$$

$$(1, 3 \times 7 \times 17), (3, 7 \times 17), (7, 3 \times 17), (17, 3 \times 7);$$

$$(1, 3 \times 11 \times 13), (3, 11 \times 13), (11, 3 \times 13), (13, 3 \times 11);$$

$$(1, 3 \times 11 \times 17), (3, 11 \times 17), (11, 3 \times 17), (17, 3 \times 11);$$

$$(1, 3 \times 13 \times 17), (3, 13 \times 17), (13, 3 \times 17), (17, 3 \times 13);$$

$$(1, 5 \times 7 \times 11), (5, 7 \times 11), (7, 5 \times 11), (11, 5 \times 7);$$

$$(1, 5 \times 7 \times 13), (5, 7 \times 13), (7, 5 \times 13), (13, 5 \times 7);$$

$$(1, 5 \times 7 \times 17), (5, 7 \times 17), (7, 5 \times 17), (17, 5 \times 7);$$

$$(1, 5 \times 11 \times 13), (5, 11 \times 13), (11, 5 \times 13), (13, 5 \times 11);$$

$$(1, 5 \times 11 \times 17), (5, 11 \times 17), (11, 5 \times 17), (17, 5 \times 11);$$

$$(1, 5 \times 13 \times 17), (5, 13 \times 17), (13, 5 \times 17), (17, 5 \times 13);$$

$$\begin{aligned}
 & (1; 7 \times 11 \times 13), (4; 11 \times 13), (11; 7 \times 13), (13; 7 \times 11), \\
 & (1; 7 \times 11 \times 17), (7; 11 \times 17), (11; 7 \times 17), (17; 7 \times 11), \\
 & (1; 7 \times 13 \times 17), (7; 13 \times 17), (13; 7 \times 17), (17; 7 \times 13), \\
 & (1; 11 \times 13 \times 17), (11; 13 \times 17), (13; 11 \times 17), (17; 11 \times 13),
 \end{aligned}$$

$$- \text{Tp } 140;$$

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(2, 3, 5, 7, 11, 13, 17)

(2)

- (2, 3, 5, 7), (2, 3, 5, 11), (2, 3, 5, 13), (2, 3, 5, 17),
 (2, 3, 7, 11), (2, 3, 7, 13), (2, 3, 7, 17),
 (2, 3, 11, 13), (2, 3, 11, 17), (2, 3, 13, 17),
 (2, 5, 7, 11), (2, 5, 7, 13), (2, 5, 7, 17),
 (2, 5, 11, 13), (2, 5, 11, 17), (2, 5, 13, 17),
 (2, 7, 11, 13), (2, 7, 11, 17), (2, 7, 13, 17),
 (2, 11, 13, 17),
 (3, 5, 7, 11), (3, 5, 7, 13), (3, 5, 7, 17),
 (3, 5, 11, 13), (3, 5, 11, 17), (3, 5, 13, 17),
 (5, 7, 11, 13), (5, 7, 11, 17), (5, 7, 13, 17),
 (7, 11, 13, 17), (5, 11, 13, 17), (3, 7, 11, 13),
 (3, 7, 11, 17), (3, 7, 13, 17), (3, 11, 13, 17).

(63)

- (*) (1, 2x3x5x7), (2, 3x5x7), (3, 2x5x7), (5, 2x3x7),
 (7, 2x3x5), (2x3, 5x7), (2x5, 3x7), (2x7, 3x5),
 (1, 2x3x5x11), (2, 3x5x11), (3, 2x5x11), (5, 2x3x11),
 (11, 2x3x5), (2x3, 5x11), (2x5, 3x11), (2x11, 3x5),
 (1, 2x3x5x13), (2, 3x5x13), (3, 2x5x13), (5, 2x3x13),
 (13, 2x3x5), (2x3, 5x13), (2x5, 3x13), (2x13, 3x5),
 (1, 2x3x5x17), (2, 3x5x17), (3, 2x5x17), (5, 2x3x17),
 (17, 2x3x5), (2x3, 5x17), (2x5, 3x17), (2x17, 3x5),
 (1, 2x3x7x11), (2, 3x7x11), (3, 2x7x11), (7, 2x3x11),
 (11, 2x3x7), (2x3, 7x11), (2x7, 3x11), (2x11, 3x7),
 (1, 2x3x7x13), (2, 3x7x13), (3, 2x7x13), (7, 2x3x13),
 (13, 2x3x7), (2x3, 7x13), (2x7, 3x13), (2x13, 3x7).

$(1; 2 \times 3 \times 7 \times 17); (2; 3 \times 7 \times 17); (3; 2 \times 7 \times 17); (7; 2 \times 3 \times 17);$
 $(17; 2 \times 3 \times 7); (2 \times 3; 7 \times 17); (2 \times 7; 3 \times 17); (2 \times 17; 3 \times 7);$
 $(1; 2 \times 3 \times 11 \times 13); (2; 3 \times 11 \times 13); (3; 2 \times 11 \times 13); (11; 2 \times 3 \times 13);$
 $(13; 2 \times 3 \times 11); (2 \times 3; 11 \times 13); (2 \times 11; 3 \times 13); (2 \times 13; 3 \times 11);$
 $(1; 2 \times 3 \times 11 \times 17); (2; 3 \times 11 \times 17); (3; 2 \times 11 \times 17); (11; 2 \times 3 \times 17);$
 $(17; 2 \times 3 \times 11); (2 \times 3; 11 \times 17); (2 \times 11; 3 \times 17); (2 \times 17; 3 \times 11);$
 $(1; 2 \times 3 \times 13 \times 17); (2; 3 \times 13 \times 17); (3; 2 \times 13 \times 17); (13; 2 \times 3 \times 17);$
 $(17; 2 \times 3 \times 13); (2 \times 3; 13 \times 17); (2 \times 13; 3 \times 17); (2 \times 17; 3 \times 13);$
 $(1; 2 \times 5 \times 7 \times 11); (2; 5 \times 7 \times 11); (5; 2 \times 7 \times 11); (7; 2 \times 5 \times 11);$
 $(11; 2 \times 5 \times 7); (2 \times 5; 7 \times 11); (2 \times 7; 5 \times 11); (2 \times 11; 5 \times 7);$
 $(1; 2 \times 5 \times 7 \times 13); (2; 5 \times 7 \times 13); (5; 2 \times 7 \times 13); (7; 2 \times 5 \times 13);$
 $(13; 2 \times 5 \times 7); (2 \times 5; 7 \times 13); (2 \times 7; 5 \times 13); (2 \times 13; 5 \times 7);$
 $(1; 2 \times 5 \times 7 \times 17); (2; 5 \times 7 \times 17); (5; 2 \times 7 \times 17); (7; 2 \times 5 \times 17);$
 $(17; 2 \times 5 \times 7); (2 \times 5; 7 \times 17); (2 \times 7; 5 \times 17); (2 \times 17; 5 \times 7);$
 $(1; 2 \times 5 \times 11 \times 13); (2; 5 \times 11 \times 13); (5; 2 \times 11 \times 13); (11; 2 \times 5 \times 13);$
 $(13; 2 \times 5 \times 11); (2 \times 5; 11 \times 13); (2 \times 11; 5 \times 13); (2 \times 13; 5 \times 11);$
 $(1; 2 \times 5 \times 11 \times 17); (2; 5 \times 11 \times 17); (5; 2 \times 11 \times 17); (11; 2 \times 5 \times 17);$
 $(17; 2 \times 5 \times 11); (2 \times 5; 11 \times 17); (2 \times 11; 5 \times 17); (2 \times 17; 5 \times 11);$
 $(1; 2 \times 5 \times 13 \times 17); (2; 5 \times 13 \times 17); (5; 2 \times 13 \times 17); (13; 2 \times 5 \times 17);$
 $(17; 2 \times 5 \times 13); (2 \times 5; 13 \times 17); (2 \times 13; 5 \times 17); (2 \times 17; 5 \times 13);$
 $(1; 2 \times 7 \times 11 \times 13); (2; 7 \times 11 \times 13); (7; 2 \times 11 \times 13); (11; 2 \times 7 \times 13);$
 $(13; 2 \times 7 \times 11); (2 \times 7; 11 \times 13); (2 \times 11; 7 \times 13); (2 \times 13; 7 \times 11);$

- $(1; 2 \times 7 \times 11 \times 17), (2; 7 \times 11 \times 17), (7; 2 \times 11 \times 17), (11; 2 \times 7 \times 17),$
 $(17; 2 \times 7 \times 11), (2 \times 7; 11 \times 17), (2 \times 11; 7 \times 17), (2 \times 17; 7 \times 11),$
 $(1; 2 \times 7 \times 13 \times 17), (2; 7 \times 13 \times 17), (7; 2 \times 13 \times 17), (13; 2 \times 7 \times 17),$
 $(17; 2 \times 7 \times 13), (2 \times 7; 13 \times 17), (2 \times 13; 7 \times 17), (2 \times 17; 7 \times 13),$
 $(1; 2 \times 11 \times 13 \times 17), (2; 11 \times 13 \times 17), (11; 2 \times 13 \times 17), (13; 2 \times 11 \times 17),$
 $(17; 2 \times 11 \times 13), (2 \times 11; 13 \times 17), (2 \times 13; 11 \times 17), (2 \times 17; 11 \times 13),$
 $(1; 3 \times 5 \times 7 \times 11), (3; 5 \times 7 \times 11), (5; 3 \times 7 \times 11), (7; 3 \times 5 \times 11),$
 $(11; 3 \times 5 \times 7), (3 \times 5; 7 \times 11), (3 \times 7; 5 \times 11), (3 \times 11; 5 \times 7),$
 $(1; 3 \times 5 \times 7 \times 13), (3; 5 \times 7 \times 13), (5; 3 \times 7 \times 13), (7; 3 \times 5 \times 13),$
 $(13; 3 \times 5 \times 7), (3 \times 5; 7 \times 13), (3 \times 7; 5 \times 13), (3 \times 13; 5 \times 7),$
 $(1; 3 \times 5 \times 7 \times 17), (3; 5 \times 7 \times 17), (5; 3 \times 7 \times 17), (7; 3 \times 5 \times 17),$
 $(17; 3 \times 5 \times 7), (3 \times 5; 7 \times 17), (3 \times 7; 5 \times 17), (3 \times 17; 5 \times 7),$
 $(1; 3 \times 5 \times 11 \times 13), (3; 5 \times 11 \times 13), (5; 3 \times 11 \times 13), (11; 3 \times 5 \times 13),$
 $(13; 3 \times 5 \times 11), (3 \times 5; 11 \times 13), (3 \times 11; 5 \times 13), (3 \times 13; 5 \times 11),$
 $(1; 3 \times 5 \times 11 \times 17), (3; 5 \times 11 \times 17), (5; 3 \times 11 \times 17), (11; 3 \times 5 \times 17),$
 $(17; 3 \times 5 \times 11), (3 \times 5; 11 \times 17), (3 \times 11; 5 \times 17), (3 \times 17; 5 \times 11),$
 $(1; 3 \times 5 \times 13 \times 17), (3; 5 \times 13 \times 17), (5; 3 \times 13 \times 17), (13; 3 \times 5 \times 17),$
 $(17; 3 \times 5 \times 13), (3 \times 5; 13 \times 17), (3 \times 13; 5 \times 17), (3 \times 17; 5 \times 13),$
 $(1; 5 \times 7 \times 11 \times 13), (5; 7 \times 11 \times 13), (7; 5 \times 11 \times 13), (11; 5 \times 7 \times 13),$
 $(13; 5 \times 7 \times 11), (5 \times 7; 11 \times 13), (5 \times 11; 7 \times 13), (5 \times 13; 7 \times 11),$

$(1; 5 \times 7 \times 11 \times 17), (5; 7 \times 11 \times 17), (7; 5 \times 11 \times 17), (11; 5 \times 7 \times 17), (17; 5 \times 7 \times 11),$
 $(5 \times 7; 11 \times 17), (5 \times 11; 7 \times 17), (5 \times 17; 7 \times 11),$
 $(1; 5 \times 7 \times 13 \times 17), (5; 7 \times 13 \times 17), (7; 5 \times 13 \times 17), (13; 5 \times 7 \times 17),$
 $(17; 5 \times 7 \times 13), (5 \times 7; 13 \times 17), (5 \times 13; 7 \times 17), (5 \times 17; 7 \times 13),$
 $(1; 7 \times 11 \times 13 \times 17), (7; 11 \times 13 \times 17), (11; 7 \times 13 \times 17), (13; 7 \times 11 \times 17),$
 $(17; 7 \times 11 \times 13), (7 \times 11; 13 \times 17), (7 \times 13; 11 \times 17), (7 \times 17; 11 \times 13),$
 $(1; 5 \times 11 \times 13 \times 17), (5; 11 \times 13 \times 17), (11; 5 \times 13 \times 17), (13; 5 \times 11 \times 17),$
 $(17; 5 \times 11 \times 13), (5 \times 11; 13 \times 17), (5 \times 13; 11 \times 17), (5 \times 17; 11 \times 13),$
 $(1; 3 \times 7 \times 11 \times 13), (3; 7 \times 11 \times 13), (7; 3 \times 11 \times 13), (11; 3 \times 7 \times 13),$
 $(13; 3 \times 7 \times 11), (3 \times 7; 11 \times 13), (3 \times 11; 7 \times 13), (3 \times 13; 7 \times 11),$
 $(1; 3 \times 7 \times 11 \times 17), (3; 7 \times 11 \times 17), (7; 3 \times 11 \times 17), (11; 3 \times 7 \times 17),$
 $(17; 3 \times 7 \times 11), (3 \times 7; 11 \times 17), (3 \times 11; 7 \times 17), (3 \times 17; 7 \times 11),$
 $(1; 3 \times 7 \times 13 \times 17), (3; 7 \times 13 \times 17), (7; 3 \times 13 \times 17), (13; 3 \times 7 \times 17),$
 $(17; 3 \times 7 \times 13), (3 \times 7; 13 \times 17), (3 \times 13; 7 \times 17), (3 \times 17; 7 \times 13),$
 $(1; 3 \times 11 \times 13 \times 17), (3; 11 \times 13 \times 17), (11; 3 \times 13 \times 17), (13; 3 \times 11 \times 17),$
 $(17; 3 \times 11 \times 13), (3 \times 11; 13 \times 17), (3 \times 13; 11 \times 17), (3 \times 17; 11 \times 13),$

tot 280,

$(5, 7, 11, 13, 17)$, $(3, 4, 11, 13, 17)$, $(3, 5, 11, 13, 17)$ ^{(67) (3)}
 $(3, 5, 7, 13, 17)$, $(3, 5, 7, 11, 17)$, $(3, 5, 7, 11, 13)$
 $(2, 7, 11, 13, 17)$, $(2, 5, 11, 13, 17)$, $(2, 5, 7, 13, 17)$
 $(2, 5, 7, 11, 17)$, $(2, 5, 7, 11, 13)$, $(2, 3, 11, 13, 17)$
 $(2, 3, 7, 13, 17)$, $(2, 3, 7, 11, 17)$, $(2, 3, 7, 11, 13)$
 $(2, 3, 5, 13, 17)$, $(2, 3, 5, 11, 17)$, $(2, 3, 5, 11, 13)$
 $(2, 3, 5, 7, 17)$, $(2, 3, 5, 7, 13)$, $(2, 3, 5, 7, 11)$

(*)

(68)

$(1; 2 \times 3 \times 5 \times 7 \times 11); (2; 3 \times 5 \times 7 \times 11); (3; 2 \times 5 \times 7 \times 11);$
 $(5; 2 \times 3 \times 7 \times 11); (7; 2 \times 3 \times 5 \times 11); (11; 2 \times 3 \times 5 \times 7);$
 $(2 \times 3; 5 \times 7 \times 11); (2 \times 5; 3 \times 7 \times 11); (2 \times 7; 3 \times 5 \times 11);$
 $(2 \times 11; 3 \times 5 \times 7); (3 \times 5; 2 \times 7 \times 11); (3 \times 7; 2 \times 5 \times 11);$
 $(3 \times 11; 2 \times 5 \times 7); (5 \times 7; 2 \times 3 \times 11); (5 \times 11; 2 \times 3 \times 7);$
 $(7 \times 11; 2 \times 3 \times 5);$

$(1; 2 \times 3 \times 5 \times 7 \times 13); (2; 3 \times 5 \times 7 \times 13); (3; 2 \times 5 \times 7 \times 13);$
 $(5; 2 \times 3 \times 7 \times 13); (7; 2 \times 3 \times 5 \times 13); (13; 2 \times 3 \times 5 \times 7);$
 $(2 \times 3; 5 \times 7 \times 13); (2 \times 5; 3 \times 7 \times 13); (2 \times 7; 3 \times 5 \times 13);$
 $(2 \times 13; 3 \times 5 \times 7); (3 \times 5; 2 \times 7 \times 13); (3 \times 7; 2 \times 5 \times 13);$
 $(3 \times 13; 2 \times 5 \times 7); (5 \times 7; 2 \times 3 \times 13); (5 \times 13; 2 \times 3 \times 7);$
 $(7 \times 13; 2 \times 3 \times 5);$

$(1; 2 \times 3 \times 5 \times 7 \times 17); (2; 3 \times 5 \times 7 \times 17); (3; 2 \times 5 \times 7 \times 17);$
 $(5; 2 \times 3 \times 7 \times 17); (7; 2 \times 3 \times 5 \times 17); (17; 2 \times 3 \times 5 \times 7);$
 $(2 \times 3; 5 \times 7 \times 17); (2 \times 5; 3 \times 7 \times 17); (2 \times 7; 3 \times 5 \times 17);$
 $(2 \times 17; 3 \times 5 \times 7); (3 \times 5; 2 \times 7 \times 17); (3 \times 7; 2 \times 5 \times 17);$
 $(3 \times 17; 2 \times 5 \times 7); (5 \times 7; 2 \times 3 \times 17); (5 \times 17; 2 \times 3 \times 7);$
 $(7 \times 17; 2 \times 3 \times 5);$

$(1; 2 \times 3 \times 5 \times 11 \times 13); (2; 3 \times 5 \times 11 \times 13); (3; 2 \times 5 \times 11 \times 13);$
 $(5; 2 \times 3 \times 11 \times 13); (13; 2 \times 3 \times 5 \times 11); (11; 2 \times 3 \times 5 \times 13);$
 $(2 \times 3; 5 \times 11 \times 13); (2 \times 5; 3 \times 11 \times 13); (2 \times 13; 3 \times 5 \times 11);$
 $(2 \times 11; 3 \times 5 \times 13); (3 \times 5; 2 \times 11 \times 13); (3 \times 13; 2 \times 5 \times 11);$
 $(3 \times 11; 2 \times 5 \times 13); (5 \times 13; 2 \times 3 \times 11); (5 \times 11; 2 \times 3 \times 13);$
 $(11 \times 13; 2 \times 3 \times 5);$

(69)

$$\begin{aligned}
 & (1; 2 \times 3 \times 5 \times 11 \times 17) / (2; 3 \times 5 \times 11 \times 17) / (3; 2 \times 5 \times 11 \times 17) / \\
 & (5; 2 \times 3 \times 11 \times 17) / (17; 2 \times 3 \times 5 \times 11) / (11; 2 \times 3 \times 5 \times 17) / \\
 & (2 \times 3; 5 \times 11 \times 17) / (2 \times 5; 3 \times 11 \times 17) / (2 \times 17; 3 \times 5 \times 11) / \\
 & (2 \times 11; 3 \times 5 \times 17) / (3 \times 5; 2 \times 11 \times 17) / (3 \times 17; 2 \times 5 \times 11) / \\
 & (3 \times 11; 2 \times 5 \times 17) / (5 \times 17; 2 \times 3 \times 11) / (5 \times 11; 2 \times 3 \times 17) / \\
 & (11 \times 17; 2 \times 3 \times 5) /
 \end{aligned}$$

$$\begin{aligned}
 & (1; 2 \times 3 \times 5 \times 13 \times 17) / (2; 3 \times 5 \times 13 \times 17) / (3; 2 \times 5 \times 13 \times 17) / \\
 & (5; 2 \times 3 \times 13 \times 17) / (17; 2 \times 3 \times 5 \times 13) / (13; 2 \times 3 \times 5 \times 17) / \\
 & (2 \times 3; 5 \times 13 \times 17) / (2 \times 5; 3 \times 13 \times 17) / (2 \times 17; 3 \times 5 \times 13) / \\
 & (2 \times 13; 3 \times 5 \times 17) / (3 \times 5; 2 \times 13 \times 17) / (3 \times 17; 2 \times 5 \times 13) / \\
 & (2 \times 13; 2 \times 5 \times 17) / (5 \times 17; 2 \times 3 \times 13) / (5 \times 13; 2 \times 3 \times 17) / \\
 & (13 \times 17; 2 \times 3 \times 5) /
 \end{aligned}$$

$$\begin{aligned}
 & (1; 2 \times 3 \times 7 \times 13 \times 17) / (2; 3 \times 7 \times 13 \times 17) / (3; 2 \times 7 \times 13 \times 17) / \\
 & (7; 2 \times 3 \times 13 \times 17) / (17; 2 \times 3 \times 7 \times 13) / (13; 2 \times 3 \times 7 \times 17) / \\
 & (2 \times 3; 7 \times 13 \times 17) / (2 \times 7; 3 \times 13 \times 17) / (2 \times 17; 3 \times 7 \times 13) / \\
 & (2 \times 13; 3 \times 7 \times 17) / (3 \times 7; 2 \times 13 \times 17) / (3 \times 17; 2 \times 7 \times 13) / \\
 & (3 \times 13; 2 \times 7 \times 17) / (7 \times 17; 2 \times 5 \times 13) / (7 \times 13; 2 \times 3 \times 17) / \\
 & (13 \times 17; 2 \times 3 \times 7) /
 \end{aligned}$$

$$\begin{aligned}
 & (1; 2 \times 3 \times 7 \times 11 \times 17) / (2; 3 \times 7 \times 11 \times 17) / (3; 2 \times 7 \times 11 \times 17) / \\
 & (7; 2 \times 3 \times 11 \times 17) / (17; 2 \times 3 \times 7 \times 11) / (11; 2 \times 3 \times 7 \times 17) / \\
 & (2 \times 3; 7 \times 11 \times 17) / (2 \times 7; 3 \times 11 \times 17) / (2 \times 17; 3 \times 7 \times 11) / \\
 & (2 \times 11; 3 \times 7 \times 17) / (3 \times 7; 2 \times 11 \times 17) / (3 \times 17; 2 \times 7 \times 11) / \\
 & (3 \times 11; 2 \times 7 \times 17) / (7 \times 17; 2 \times 3 \times 11) / (7 \times 11; 2 \times 3 \times 17) / \\
 & (11 \times 17; 2 \times 3 \times 7) /
 \end{aligned}$$

(70)

$(1; 2 \times 3 \times 7 \times 11 \times 13) / (2; 3 \times 7 \times 11 \times 13) / (3; 2 \times 7 \times 11 \times 13) /$
 $(7; 2 \times 3 \times 11 \times 13) / (13; 2 \times 3 \times 7 \times 11) / (11; 2 \times 3 \times 7 \times 13) /$
 $(2 \times 3; 7 \times 11 \times 13) / (2 \times 7; 3 \times 11 \times 13) / (2 \times 11; 3 \times 7 \times 13) /$
 $(3 \times 7; 2 \times 11 \times 13) / (3 \times 13; 2 \times 7 \times 11) /$
 $(7 \times 11; 2 \times 3 \times 13) / (7 \times 13; 2 \times 3 \times 11) / (7 \times 11; 2 \times 3 \times 13) /$
 $(11 \times 13; 2 \times 3 \times 7) /$

$(1; 2 \times 3 \times 11 \times 13 \times 17) / (2; 3 \times 11 \times 13 \times 17) / (3; 2 \times 11 \times 13 \times 17) /$
 $(17; 2 \times 3 \times 11 \times 13) / (13; 2 \times 3 \times 11 \times 17) / (11; 2 \times 3 \times 13 \times 17) /$
 $(2 \times 3; 11 \times 13 \times 17) / (2 \times 17; 3 \times 11 \times 13) / (2 \times 13; 3 \times 11 \times 17) /$
 $(2 \times 11; 3 \times 13 \times 17) / (3 \times 17; 2 \times 11 \times 13) / (3 \times 13; 2 \times 11 \times 17) /$
 $(3 \times 11; 2 \times 13 \times 17) / (13 \times 17; 2 \times 3 \times 11) / (11 \times 17; 2 \times 3 \times 13) /$
 $(11 \times 13; 2 \times 3 \times 17) /$

$(1; 2 \times 5 \times 7 \times 11 \times 13) / (2; 5 \times 7 \times 11 \times 13) / (5; 2 \times 7 \times 11 \times 13) /$
 $(7; 2 \times 5 \times 11 \times 13) / (13; 2 \times 5 \times 7 \times 11) / (11; 2 \times 5 \times 7 \times 13) /$
 $(2 \times 5; 7 \times 11 \times 13) / (2 \times 7; 5 \times 11 \times 13) / (2 \times 13; 5 \times 7 \times 11) /$
 $(2 \times 11; 5 \times 7 \times 13) / (5 \times 7; 2 \times 11 \times 13) / (5 \times 13; 2 \times 7 \times 11) /$
 $(5 \times 11; 2 \times 7 \times 13) / (7 \times 13; 2 \times 5 \times 11) / (7 \times 11; 2 \times 5 \times 13) /$
 $(11 \times 13; 2 \times 5 \times 7) /$

$(1; 2 \times 5 \times 7 \times 11 \times 17) / (2; 5 \times 7 \times 11 \times 17) / (5; 2 \times 7 \times 11 \times 17) /$
 $(7; 2 \times 5 \times 11 \times 17) / (17; 2 \times 5 \times 7 \times 11) / (11; 2 \times 5 \times 7 \times 17) /$
 $(2 \times 5; 7 \times 11 \times 17) / (2 \times 7; 5 \times 11 \times 17) / (2 \times 17; 5 \times 7 \times 11) /$
 $(2 \times 11; 5 \times 7 \times 17) / (5 \times 7; 2 \times 11 \times 17) / (5 \times 17; 2 \times 7 \times 11) /$
 $(5 \times 11; 2 \times 7 \times 17) / (7 \times 17; 2 \times 5 \times 11) / (7 \times 11; 2 \times 5 \times 17) /$
 $(11 \times 17; 2 \times 5 \times 7) /$

(71)

$(1; 2 \times 5 \times 7 \times 13 \times 17); (2; 5 \times 7 \times 13 \times 17); (5; 2 \times 7 \times 13 \times 17);$
 $(7; 2 \times 5 \times 13 \times 17); (17; 2 \times 5 \times 7 \times 13); (43; 2 \times 5 \times 7 \times 17);$
 $(2 \times 5; 7 \times 13 \times 17); (2 \times 7; 5 \times 13 \times 17); (2 \times 17; 5 \times 7 \times 13);$
 $(2 \times 13; 5 \times 7 \times 17); (5 \times 7; 2 \times 13 \times 17); (5 \times 17; 2 \times 7 \times 13);$
 $(5 \times 13; 2 \times 7 \times 17); (7 \times 17; 2 \times 5 \times 13); (7 \times 13; 2 \times 5 \times 17);$
 $(13 \times 17; 2 \times 5 \times 7);$

$(1; 2 \times 5 \times 11 \times 13 \times 17); (2; 5 \times 11 \times 13 \times 17); (5; 2 \times 11 \times 13 \times 17);$
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 $(2 \times 5; 11 \times 13 \times 17); (2 \times 11; 5 \times 13 \times 17); (2 \times 17; 5 \times 11 \times 13);$
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 $(2 \times 13; 7 \times 11 \times 17); (7 \times 11; 2 \times 13 \times 17); (7 \times 17; 2 \times 11 \times 13);$
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 $(13 \times 17; 2 \times 7 \times 11);$

$$\begin{aligned}
 & (1, 3 \times 5 \times 7 \times 11 \times 13) / (3, 5 \times 7 \times 11 \times 13) / (5, 3 \times 7 \times 11 \times 13) / (7, 3 \times 5 \times 7 \times 11) / (11, 3 \times 5 \times 7 \times 13) / \\
 & (3 \times 5, 7 \times 11 \times 13) / (3 \times 7, 5 \times 11 \times 13) / (3 \times 13, 5 \times 7 \times 11) / \\
 & (3 \times 11, 5 \times 7 \times 13) / (5 \times 7, 3 \times 11 \times 13) / (5 \times 13, 3 \times 7 \times 11) / \\
 & (5 \times 11, 3 \times 7 \times 13) / (7 \times 13, 3 \times 5 \times 11) / (7 \times 11, 3 \times 5 \times 13) / \\
 & (11 \times 13, 3 \times 5 \times 7) / .
 \end{aligned}$$

$$\begin{aligned}
 & \Gamma (1, 3 \times 5 \times 7 \times 11 \times 17) / (3, 5 \times 7 \times 11 \times 17) / (5, 3 \times 7 \times 11 \times 17) / \\
 & (7, 3 \times 5 \times 11 \times 17) / (17, 3 \times 5 \times 7 \times 11) / (11, 3 \times 5 \times 7 \times 17) / \\
 & (3 \times 5, 7 \times 11 \times 17) / (3 \times 7, 5 \times 11 \times 17) / (3 \times 17, 5 \times 7 \times 11) / \\
 & (3 \times 11, 5 \times 7 \times 17) / (5 \times 7, 3 \times 11 \times 17) / (5 \times 17, 3 \times 7 \times 11) / \\
 & (5 \times 11, 3 \times 7 \times 17) / (7 \times 17, 3 \times 5 \times 11) / (7 \times 11, 3 \times 5 \times 17) / \\
 & (11 \times 17, 3 \times 5 \times 7) / .
 \end{aligned}$$

$$\begin{aligned}
 & (1, 3 \times 5 \times 7 \times 13 \times 17) / (3, 5 \times 7 \times 13 \times 17) / (5, 3 \times 7 \times 13 \times 17) / \\
 & (7, 3 \times 5 \times 13 \times 17) / (17, 3 \times 5 \times 7 \times 13) / (13, 3 \times 5 \times 7 \times 17) / \\
 & (3 \times 5, 7 \times 13 \times 17) / (3 \times 7, 5 \times 13 \times 17) / (3 \times 17, 5 \times 7 \times 13) / \\
 & (3 \times 13, 5 \times 7 \times 17) / (5 \times 7, 3 \times 13 \times 17) / (5 \times 17, 3 \times 7 \times 13) / \\
 & (5 \times 13, 3 \times 7 \times 17) / (7 \times 17, 3 \times 5 \times 13) / (7 \times 13, 3 \times 5 \times 17) / \\
 & (13 \times 17, 3 \times 5 \times 7) / .
 \end{aligned}$$

(73)

(6)

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(2; 3; 5; 7; 13; 17); (2; 3; 5; 7; 11; 17);
(2; 3; 5; 7; 11; 13);

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 (3x11; 5x7x13x17); (3x13; 5x7x11x17); (3x17; 5x7x11x13);
 (5x7; 3x11x13x17); (5x11; 3x7x13x17); (5x13; 3x7x11x17);
 (5x17; 3x7x11x13); (7x11; 3x5x13x17); (7x13; 3x5x11x17);
 (7x17; 3x5x11x13); (11x13; 3x5x7x17); (11x17; 3x5x7x13);
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 (3x5x13; 7x11x17); (3x5x17; 7x11x13); (3x7x11; 5x13x17);
 (3x7x13; 5x11x17); (3x7x17; 5x11x13); (3x11x13; 5x7x17);
 (3x11x17; 5x7x13); (3x13x17; 5x7x11);

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 (7; 2x5x11x13x17); (11; 2x5x7x13x17); (13; 2x5x7x11x17);
 (17; 2x5x7x11x13); (2x5; 7x11x13x17); (2x7; 5x11x13x17);
 (2x11; 5x7x13x17); (2x13; 5x7x11x17); (2x17; 5x7x11x13);
 (5x7; 2x11x13x17); (5x11; 2x7x13x17); (5x13; 2x7x11x17);
 (5x17; 2x7x11x13); (7x11; 2x5x13x17); (7x13; 2x5x11x17);
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 (13x17; 2x5x7x11); (2x5x7; 11x13x17); (2x5x11; 7x13x17);
 (2x5x13; 7x11x17); (2x5x17; 7x11x13); (2x7x11; 5x13x17);
 (2x7x13; 5x11x17); (2x7x17; 5x11x13); (2x11x13; 5x7x17);
 (2x11x17; 5x7x13); (2x13x17; 5x7x11);

75

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(17; 2x3x7x11x13); (2x3; 7x11x13x17); (3x7; 2x11x13x17);
(3x11; 2x7x13x17); (3x13; 2x7x11x17); (3x17; 2x7x11x13);
(2x7; 3x11x13x17); (2x11; 3x7x13x17); (2x13; 3x7x11x17);
(2x17; 3x7x11x13); (7x11; 2x3x13x17); (7x13; 2x3x11x17);
(7x17; 2x3x11x13); (11x13; 2x3x7x17); (11x17; 2x3x7x13);
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(3x11x17; 2x7x13); (3x13x17; 2x7x11);

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(2x5; 3x11x13x17); (2x11; 3x5x13x17); (2x13; 3x5x11x17);
(2x17; 3x5x11x13); (5x11; 2x3x13x17); (5x13; 2x3x11x17);
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(3x11x17; 2x5x13); (3x13x17; 2x5x11);

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(5x1
(13x
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(1;
(5;
(14;
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(2x17
(5x1
(11x17
(2x3;
(3x5
(3x

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(77)

(2, 3, 5, 7, 11, 13, 17);

(78)

(8)

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(78)

(8)

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(7)

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(7, 11, 17, 2, 3, 5, 13) /
(7, 13, 17, 2, 3, 5, 11) /
(11, 13, 17, 2, 3, 5, 7) /

(1, 2)	(1, 51)	(2, 21)	(1, 170)	(17, 26)	(17, 51)
(1, 3)	(3, 17)	(3, 14)	(2, 85)	(1, 105)	(17, 24)
(1, 5)	(1, 74)	(6, 4)	(5, 34)	(3, 35)	(1, 429)
(1, 4)	(4, 11)	(1, 66)	(10, 17)	(5, 24)	(3, 143)
(1, 11)	(1, 91)	(2, 33)	(1, 154)	(7, 25)	(1, 39)
(1, 13)	(7, 13)	(3, 22)	(2, 47)	(1, 165)	(13, 33)
(1, 14)	(1, 119)	(5, 11)	(4, 22)	(3, 55)	(1, 561)
(1, 6)	(4, 17)	(1, 78)	(11, 14)	(5, 33)	(3, 187)
(2, 3)	(1, 143)	(2, 39)	(1, 182)	(11, 15)	(11, 51)
(1, 10)	(11, 13)	(3, 26)	(2, 94)	(1, 195)	(7, 33)
(2, 5)	(1, 187)	(6, 13)	(7, 26)	(3, 65)	(1, 663)
(4, 14)	(11, 17)	(1, 102)	(13, 14)	(5, 39)	(3, 221)
(2, 7)	(1, 221)	(2, 51)	(1, 238)	(13, 15)	(13, 51)
(1, 22)	(13, 17)	(3, 34)	(2, 119)	(1, 255)	(17, 39)
(2, 11)	(1, 35)	(6, 17)	(7, 34)	(3, 85)	(1, 385)
(1, 26)	(5, 71)	(1, 70)	(14, 17)	(5, 51)	(5, 77)
(2, 13)	(1, 55)	(2, 35)	(1, 286)	(15, 17)	(7, 55)
(1, 34)	(5, 11)	(3, 14)	(2, 143)	(1, 234)	(11, 35)
(2, 17)	(1, 65)	(7, 40)	(11, 26)	(3, 77)	(1, 455)
(1, 15)	(5, 13)	(1, 110)	(13, 22)	(7, 33)	(5, 91)
(3, 5)	(1, 85)	(2, 55)	(1, 374)	(11, 21)	(7, 65)
(1, 21)	(5, 17)	(5, 22)	(2, 187)	(1, 273)	(13, 35)
(3, 71)	(1, 30)	(10, 11)	(11, 34)	(3, 91)	(1, 595)
(1, 33)	(2, 15)	(1, 130)	(17, 22)	(7, 39)	(5, 119)
(3, 11)	(3, 10)	(7, 65)	(1, 442)	(13, 21)	(7, 85)
(1, 39)	(5, 6)	(5, 26)	(2, 22)	(1, 357)	(17, 35)
(3, 13)	(1, 42)	(10, 13)	(13, 34)	(3, 119)	(1, 715)

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(5, 143)	(1, 210)	(5, 102)	(14, 51)	(2, 385)	(13, 110)	(26, 77)
(11, 65)	(2, 105)	(17, 30)	(21, 34)	(5, 154)	(10, 443)	(1, 2618)
(13, 55)	(3, 70)	(6, 85)	(1, 858)	(7, 110)	(22, 65)	(2, 1309)
(1, 935)	(5, 42)	(12, 51)	(2, 429)	(11, 70)	(26, 55)	(7, 374)
(5, 187)	(4, 30)	(15, 34)	(3, 286)	(10, 77)	(1, 1870)	(11, 238)
(11, 85)	(6, 35)	(1, 462)	(11, 78)	(14, 55)	(2, 935)	(17, 154)
(17, 55)	(10, 21)	(9, 231)	(13, 66)	(22, 35)	(5, 374)	(14, 187)
(1, 1105)	(14, 15)	(3, 154)	(6, 143)	(1, 910)	(11, 170)	(22, 119)
(5, 221)	(1, 330)	(7, 66)	(22, 39)	(9, 455)	(17, 110)	(34, 77)
(13, 85)	(2, 165)	(11, 42)	(26, 33)	(5, 182)	(10, 187)	(1, 3094)
(17, 65)	(3, 110)	(6, 77)	(1, 1122)	(17, 130)	(22, 85)	(2, 1547)
(1, 1001)	(5, 66)	(14, 33)	(2, 561)	(13, 70)	(34, 55)	(7, 642)
(2, 143)	(11, 30)	(21, 22)	(3, 374)	(10, 91)	(1, 2210)	(13, 738)
(11, 91)	(6, 55)	(1, 546)	(11, 102)	(14, 65)	(2, 1105)	(17, 182)
(13, 77)	(10, 33)	(2, 973)	(17, 66)	(26, 35)	(5, 442)	(14, 221)
(1, 1309)	(15, 22)	(3, 182)	(6, 187)	(1, 1190)	(13, 170)	(26, 119)
(7, 187)	(1, 390)	(7, 78)	(22, 51)	(2, 595)	(12, 130)	(34, 91)
(11, 119)	(2, 195)	(13, 42)	(38, 34)	(5, 238)	(10, 221)	(1, 4862)
(12, 77)	(3, 130)	(6, 91)	(1, 1326)	(7, 170)	(26, 85)	(2, 2431)
(1, 1547)	(5, 78)	(14, 39)	(2, 663)	(17, 70)	(34, 65)	(11, 442)
(2, 221)	(13, 30)	(21, 26)	(3, 442)	(10, 119)	(1, 2002)	(13, 374)
(13, 119)	(6, 65)	(1, 714)	(13, 104)	(14, 85)	(2, 1001)	(17, 286)
(17, 91)	(10, 39)	(2, 357)	(17, 78)	(34, 35)	(9, 286)	(22, 221)
(1, 2431)	(5, 26)	(3, 238)	(6, 221)	(1, 1430)	(11, 182)	(26, 187)
(11, 221)	(1, 510)	(7, 102)	(26, 51)	(2, 715)	(13, 154)	(34, 143)
(13, 187)	(2, 255)	(7, 42)	(34, 39)	(5, 286)	(14, 143)	(1, 1155)
(17, 143)	(3, 170)	(6, 119)	(1, 770)	(11, 130)	(22, 91)	(3, 385)

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(5, 231)	(15, 143)	(1, 6545)	(13, 935)	(39, 119)
(7, 165)	(33, 65)	(5, 1309)	(17, 715)	(51, 91)
(11, 105)	(39, 55)	(7, 935)	(55, 221)	(11, 7293)
(15, 77)	(1, 2805)	(11, 595)	(65, 187)	(9, 2431)
(21, 55)	(3, 935)	(17, 385)	(85, 143)	(11, 663)
(33, 35)	(5, 561)	(35, 187)	(1, 3003)	(13, 561)
(1, 1365)	(11, 255)	(55, 119)	(3, 1001)	(17, 429)
(3, 455)	(17, 165)	(77, 85)	(7, 429)	(33, 221)
(5, 273)	(15, 187)	(1, 7735)	(11, 773)	(39, 187)
(7, 195)	(33, 85)	(5, 1547)	(13, 231)	(51, 143)
(13, 105)	(51, 55)	(7, 1105)	(21, 143)	
(15, 91)	(1, 335)	(13, 595)	(33, 91)	
(21, 65)	(3, 1105)	(17, 455)	(39, 77)	
(35, 39)	(5, 663)	(35, 221)	(1, 3927)	
(1, 1785)	(13, 255)	(65, 119)	(3, 1309)	
(3, 595)	(17, 195)	(85, 91)	(5, 561)	
(5, 357)	(15, 221)	(1, 17017)	(11, 357)	
(7, 255)	(39, 85)	(7, 2431)	(17, 231)	
(17, 105)	(51, 65)	(11, 1547)	(21, 187)	
(15, 119)	(1, 3005)	(13, 1309)	(33, 119)	
(21, 85)	(5, 1001)	(17, 1001)	(51, 77)	
(35, 51)	(7, 715)	(77, 221)	(1, 4641)	
(1, 2165)	(11, 455)	(91, 187)	(3, 1547)	
(3, 715)	(13, 385)	(119, 143)	(7, 663)	
(5, 429)	(35, 143)	(1, 12155)	(13, 351)	
(11, 195)	(55, 91)	(5, 2431)	(17, 273)	
(13, 165)	(65, 77)	(11, 1105)	(21, 221)	

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(1, 2320)	(39, 70)	(26, 165)	(17, 390)	(1, 7854)	(33, 182)
(2, 1155)	(35, 78)	(22, 195)	(13, 510)	(2, 3927)	(66, 91)
(3, 740)	(42, 65)	(15, 286)	(6, 1105)	(3, 2618)	(77, 78)
(5, 462)	(30, 91)	(39, 110)	(10, 663)	(7, 1122)	(42, 143)
(4, 330)	(1, 3570)	(33, 130)	(34, 195)	(17, 462)	(1, 14586)
(11, 210)	(2, 1785)	(65, 66)	(26, 255)	(11, 714)	(2, 7293)
(6, 385)	(3, 1190)	(55, 78)	(15, 442)	(6, 1309)	(3, 4862)
(40, 231)	(5, 714)	(30, 149)	(51, 130)	(14, 561)	(17, 858)
(14, 165)	(7, 510)	(1, 5610)	(39, 170)	(34, 231)	(13, 1122)
(22, 105)	(17, 210)	(2, 2805)	(78, 85)	(22, 357)	(11, 1326)
(15, 154)	(6, 595)	(3, 1870)	(65, 102)	(21, 374)	(6, 2431)
(21, 110)	(10, 357)	(5, 1122)	(35, 221)	(51, 154)	(34, 429)
(33, 70)	(14, 255)	(17, 330)	(1, 9282)	(33, 238)	(26, 561)
(35, 66)	(34, 105)	(11, 510)	(2, 4641)	(66, 119)	(22, 663)
(42, 55)	(15, 238)	(6, 935)	(3, 3094)	(77, 102)	(51, 286)
(30, 77)	(21, 170)	(10, 561)	(7, 1326)	(42, 187)	(39, 374)
(1, 2730)	(51, 70)	(34, 165)	(17, 546)	(1, 6006)	(33, 442)
(2, 1365)	(35, 302)	(22, 255)	(13, 714)	(2, 3003)	(66, 921)
(3, 910)	(42, 85)	(15, 374)	(6, 1341)	(3, 2002)	(78, 182)
(5, 546)	(30, 119)	(51, 110)	(14, 663)	(7, 858)	(102, 143)
(7, 390)	(1, 4290)	(33, 170)	(34, 273)	(13, 462)	(1, 10010)
(13, 270)	(9, 2145)	(66, 85)	(26, 357)	(11, 546)	(2, 5005)
(6, 455)	(3, 1430)	(55, 102)	(21, 442)	(6, 1001)	(5, 2002)
(10, 273)	(5, 858)	(30, 187)	(51, 182)	(14, 429)	(4, 1430)
(14, 195)	(13, 330)	(1, 6630)	(39, 238)	(26, 231)	(13, 770)
(26, 105)	(11, 390)	(2, 3375)	(78, 119)	(22, 273)	(11, 910)
(15, 182)	(6, 715)	(3, 2210)	(91, 102)	(21, 286)	(10, 1004)
(21, 130)	(15, 429)	(5, 1326)	(42, 221)	(39, 154)	(14, 715)

(17)
(85)

(1, 255255)	(357, 715)	(130, 1309)	(187, 546)	(55, 1326)
(3, 85085)	(429, 595)	(170, 1004)	(221, 462)	(65, 1122)
(5, 51051)	(455, 564)	(154, 1105)	(42, 2431)	(85, 858)
(7, 36465)	(385, 663)	(182, 935)	(66, 1547)	(143, 510)
(11, 23205)	(1, 170179)	(238, 715)	(78, 1309)	(187, 390)
(13, 19635)	(2, 85085)	(286, 595)	(102, 1001)	(221, 330)
(17, 15045)	(5, 34034)	(374, 455)	231 442	(30, 2431)
(15, 17017)	(7, 24310)	(385, 442)	(73, 374)	(66, 1105)
(21, 12455)	(11, 15470)	(1, 102104)	(286, 357)	(78, 935)
(23, 7735)	(13, 13090)	(3, 34034)	(238, 429)	(102, 715)
(39, 6545)	(17, 10010)	(2, 51051)	(182, 561)	(165, 442)
(51, 5005)	(10, 17017)	(7, 14586)	(154, 663)	(195, 374)
(35, 7293)	(14, 12155)	(11, 9282)	(1, 72930)	(255, 286)
(55, 4641)	(22, 7735)	(13, 7854)	(3, 24310)	(170, 426)
(65, 3927)	(26, 6545)	(17, 6006)	(2, 36465)	(130, 561)
(85, 3003)	(34, 5005)	(6, 17017)	(5, 14586)	(110, 663)
(27, 3315)	(35, 4862)	24, 4862	(11, 6630)	(1, 46410)
(91, 2805)	(55, 3094)	(33, 3094)	(13, 5610)	(3, 15470)
(119, 2145)	(65, 2618)	(39, 2618)	(17, 4290)	(2, 23205)
(143, 1785)	(85, 2002)	(51, 2002)	(6, 12155)	(5, 9282)
(187, 1365)	(27, 2210)	(14, 7293)	(15, 4862)	(7, 6630)
(221, 11455)	(91, 1870)	(22, 4641)	33, 2210	(13, 3570)
(105, 2431)	(119, 1430)	(26, 3927)	(39, 1870)	(14, 2730)
(165, 1547)	(43, 1190)	(34, 3003)	(51, 1430)	(6, 7735)
(195, 1309)	(187, 910)	(77, 1326)	(10, 7293)	(15, 3094)
(255, 1001)	(221, 770)	(91, 1122)	(22, 3315)	(21, 2210)
(231, 1105)	(70, 2431)	(119, 858)	(26, 2805)	(39, 1190)
(273, 935)	(110, 1547)	(143, 714)	(34, 2145)	(51, 910)

(10, 4644)	(15, 2618)	(7, 4290)
(14, 3315)	(21, 1870)	(11, 2730)
(26, 1785)	(33, 1190)	(13, 2310)
(34, 1365)	(51, 770)	(6, 5005)
(35, 1326)	(10, 3924)	(15, 2002)
(65, 714)	(14, 2805)	(21, 1430)
(85, 546)	(22, 1785)	(33, 910)
(91, 510)	(34, 1155)	(39, 770)
(119, 390)	(35, 1422)	(10, 3003)
(210, 221)	(55, 714)	(14, 2145)
(30, 1564)	(85, 462)	(92, 1365)
(42, 1105)	(77, 510)	(26, 1155)
(78, 595)	(119, 330)	(35, 858)
(102, 455)	(187, 210)	(55, 546)
(105, 442)	(30, 1309)	(65, 462)
(195, 238)	(42, 935)	(77, 390)
(182, 255)	(66, 595)	(91, 330)
(170, 273)	(102, 385)	(143, 210)
(130, 357)	(105, 374)	(30, 1001)
(20, 663)	(165, 238)	(42, 715)
(1, 39270)	(154, 255)	(66, 455)
(3, 13090)	(170, 231)	(78, 385)
(2, 19635)	(10, 357)	(105, 286)
(5, 4854)	(20, 561)	(165, 182)
(4, 5610)	(2, 30030)	(154, 195)
(11, 3570)	(3, 10010)	(130, 231)
(17, 2310)	(2, 15015)	(110, 273)
(6, 6545)	(5, 6006)	(70, 429)

(87)

(12)

(1, 510.510)	(143, 3570)	(385, 1326)
(2, 255.255)	(187, 2730)	(455, 1122)
(3, 170.170)	(221, 2310)	(595, 858)
(5, 102.102)	(30, 17017)	(429, 1190)
(7, 72930)	(42, 12155)	(462, 1105)
(11, 46410)	(66, 7735)	(714, 715)
(13, 39270)	(78, 6545)	(561, 910)
(17, 30030)	(102, 5005)	(663, 770)
(6, 85085)	(70, 7293)	(546, 935)
(10, 51051)	(110, 4641)	(512, 1001)
(14, 36465)	(130, 3927)	(390, 1309)
(22, 23205)	(170, 3003)	(330, 1544)
(26, 19635)	(154, 3315)	(210, 2431)
(34, 15015)	(182, 2805)	
(15, 34034)	(238, 2145)	
(21, 24310)	(286, 1785)	
(33, 15470)	(374, 1365)	
(39, 13090)	(442, 1155)	
(51, 10010)	(105, 4862)	
(35, 14586)	(165, 3094)	
(55, 9282)	(195, 2618)	
(65, 7854)	(255, 2002)	
(85, 6006)	(231, 2210)	
(77, 6630)	(273, 1870)	
(91, 5610)	(357, 1430)	
(119, 4290)		

(2; 3; 5; 7; 11; 13; 17)

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1	1,00140056	1,294117647	1,692307692	2,166666667	2,833333333	3,714285714
2	1,012987013	1,3	1,7	2,179487179	2,87012987	3,774509804
3	1,015384615	1,307692308	1,712454212	2,2	2,876923077	3,818181818
4	1,027472527	1,30952381	1,722077922	2,207792208	2,914285714	3,823529412
5	1,029411765	1,324675325	1,733333333	2,228571429	2,919786096	3,863636364
6	1,03030303	1,339393939	1,742081448	2,264705882	2,954545455	3,882352941
7	1,042780749	1,346153846	1,764705882	2,266666667	2,961538462	3,9
8	1,045248869	1,358823529	1,772727273	2,294117647	3	3,923076923
9	1,047619048	1,361904762	1,776923077	2,307692308	3,004201681	3,925490196
10	1,052380952	1,363636364	1,780952381	2,318181818	3,019607843	3,928571429
11	1,060606061	1,36996337	1,783216783	2,333333333	3,033333333	3,939393939
12	1,070588235	1,37254902	1,784313725	2,357142857	3,051282051	3,948717949
13	1,071428571	1,386554622	1,794871795	2,363636364	3,082417582	3,966666667
14	1,076923077	1,386946387	1,802521008	2,369230769	3,088235294	4,005602241
15	1,078431373	1,4	1,803030303	2,391774892	3,090909091	4,018181818
16	1,081818182	1,401098901	1,811764706	2,397435897	3,095238095	4,038461538
17	1,08974359	1,401960784	1,813186813	2,403361345	3,142857143	4,047619048
18	1,092436975	1,41025641	1,830769231	2,428571429	3,157142857	4,085714286
19	1,1	1,418181818	1,833333333	2,43315508	3,181818182	4,10989011
20	1,103030303	1,428571429	1,854545455	2,465934066	3,211764706	4,117647059
21	1,103896104	1,435064935	1,857142857	2,470588235	3,230769231	4,136363636
22	1,114285714	1,438461538	1,868131868	2,481818182	3,235294118	4,160839161
23	1,120879121	1,442016807	1,885714286	2,496503497	3,245454545	4,2
24	1,121568627	1,442424242	1,909090909	2,5	3,269230769	4,205882353
25	1,122994652	1,457142857	1,911764706	2,505882353	3,277310924	4,20952381
26	1,133333333	1,459893048	1,913419913	2,532467532	3,3	4,230769231
27	1,147058824	1,466666667	1,917948718	2,538461538	3,309090909	4,285714286
28	1,148051948	1,468531469	1,941176471	2,549019608	3,311688312	4,305194805
29	1,153846154	1,49321267	1,961538462	2,566666667	3,333333333	4,315384615
30	1,161387632	1,5	1,962745098	2,575757576	3,348484848	4,327272727
31	1,166666667	1,509803922	1,96969697	2,6	3,356410256	4,333333333
32	1,181818182	1,525641026	1,974358974	2,613122172	3,364705882	4,358974359
33	1,184615385	1,529411765	2	2,615384615	3,4	4,4
34	1,188811189	1,545454545	2,00280112	2,619047619	3,404761905	4,452380952
35	1,2	1,547619048	2,009090909	2,671428571	3,424908425	4,460784314
36	1,201680672	1,569230769	2,023809524	2,676470588	3,444155844	4,529411765
37	1,208791209	1,571428571	2,042857143	2,678787879	3,484162896	4,576923077
38	1,214285714	1,590909091	2,054945055	2,692307692	3,5	4,588235294
39	1,21657754	1,605882353	2,058823529	2,717647059	3,545454545	4,636363636
40	1,220512821	1,615384615	2,08041958	2,723809524	3,553846154	4,642857143
41	1,227272727	1,617647059	2,085561497	2,727272727	3,561904762	4,666666667
42	1,232967033	1,619047619	2,090497738	2,746153846	3,566433566	4,687878788
43	1,235294118	1,622103387	2,1	2,757575758	3,568627451	4,714285714
44	1,238095238	1,638655462	2,104761905	2,773109244	3,605042017	4,766666667
45	1,248251748	1,654545455	2,115384615	2,773892774	3,606060606	4,772727273
46	1,266233766	1,655844156	2,121212121	2,785714286	3,626373626	4,783549784
47	1,269230769	1,664335664	2,141176471	2,8	3,642857143	4,794871795
48	1,272727273	1,666666667	2,142857143	2,802197802	3,64973262	4,852941176
49	1,274509804	1,682352941	2,156862745	2,803921569	3,661538462	4,857142857
50	1,287878788	1,688311688	2,163636364	2,820512821	3,666666667	4,86631016

51	4,935897436	6,470588235	8,666666667	11,78571429	15,6	21,52597403
52	4,963636364	6,490909091	8,863636364	11,81818182	15,71428571	21,57692308
53	4,993006993	6,5	8,884615385	11,84615385	15,78571429	21,63636364
54	5	6,538461538	8,904761905	11,9	15,86666667	21,66666667
55	5,047058824	6,6	8,921568627	11,98717949	16,02857143	22
56	5,064935065	6,623376623	9,012605042	12,01680672	16,05882353	22,1
57	5,076923077	6,696969697	9,015151515	12,05454545	16,22727273	22,26190476
58	5,1	6,712820513	9,058823529	12,13333333	16,5	22,64705882
59	5,133333333	6,794117647	9,1	12,14285714	16,54545455	22,88461538
60	5,137362637	6,8	9,153846154	12,25714286	16,74242424	22,94117647
61	5,151515152	6,80952381	9,166666667	12,32967033	16,78205128	23,1
62	5,2	6,84981685	9,272727273	12,35294118	16,82352941	23,15238095
63	5,226244344	6,893939394	9,285714286	12,40909091	17	23,18181818
64	5,238095238	7	9,375757576	12,46666667	17,02380952	23,33333333
65	5,261904762	7,009803922	9,428571429	12,48251748	17,22077922	23,43939394
66	5,342857143	7,090909091	9,471428571	12,61764706	17,26153846	23,55294118
67	5,352941176	7,107692308	9,533333333	12,62857143	17,5	23,57142857
68	5,384615385	7,175324675	9,545454545	12,69230769	17,66470588	23,8
69	5,409090909	7,192307692	9,567099567	12,83333333	17,72727273	23,83333333
70	5,435294118	7,210084034	9,58974359	12,98181818	17,76923077	23,97435897
71	5,492307692	7,212121212	9,705882353	13	17,80952381	24,10909091
72	5,5	7,285714286	9,807692308	13,07692308	17,84313725	24,28571429
73	5,515151515	7,299465241	9,81372549	13,2	18,02521008	24,51428571
74	5,571428571	7,333333333	9,871794872	13,35714286	18,03030303	24,81818182
75	5,604395604	7,366666667	9,927272727	13,38235294	18,2	24,93333333
76	5,607843137	7,5	10	13,39393939	18,21428571	24,96503497
77	5,666666667	7,549019608	10,04545455	13,42564103	18,30769231	25,23529412
78	5,735294118	7,628205128	10,06923077	13,58823529	18,33333333	25,38461538
79	5,74025974	7,647058824	10,09411765	13,61904762	18,57142857	25,5
80	5,753846154	7,7	10,2	13,73076923	18,7	25,66666667
81	5,833333333	7,727272727	10,21428571	13,78787879	18,75151515	26
82	5,888235294	7,8	10,26666667	13,92857143	18,94285714	26,30952381
83	5,909090909	7,846153846	10,27472527	14	19,06666667	26,71428571
84	5,923076923	7,850980392	10,45248869	14,01960784	19,09090909	26,76470588
85	6	7,857142857	10,5	14,06363636	19,41176471	27
86	6,008403361	7,933333333	10,52380952	14,16666667	19,5	27,04545455
87	6,027272727	8,014285714	10,68571429	14,3	19,61538462	27,17647059
88	6,066666667	8,029411765	10,70588235	14,35064935	19,62745098	27,3
89	6,071428571	8,036363636	10,81818182	14,38461538	19,74358974	27,5
90	6,102564103	8,076923077	10,83333333	14,57142857	19,83333333	27,57575758
91	6,128571429	8,095238095	10,98461538	14,59893048	20,09090909	27,85714286
92	6,164835165	8,171428571	11	14,73333333	20,13846154	28,03921569
93	6,176470588	8,272727273	11,14285714	14,80769231	20,4	28,12727273
94	6,19047619	8,321678322	11,32352941	15	20,42857143	28,33333333
95	6,233333333	8,4	11,33333333	15,09803922	20,54945055	28,6
96	6,241258741	8,411764706	11,47058824	15,16666667	20,68181818	28,7012987
97	6,314285714	8,461538462	11,57619048	15,25641026	20,76923077	28,76923077
98	6,346153846	8,5	11,59090909	15,4	21	29,44117647
99	6,363636364	8,61038961	11,66666667	15,41208791	21,02941176	29,46666667
100	6,423529412	8,630769231	11,77647059	15,45454545	21,04761905	29,61538462

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101	30	42,27272727	60,66666667	89,04761905	142,8	231
102	30,13636364	42,5	61,28571429	91	143	231,5238095
103	30,20769231	42,9	61,64835165	91,53846154	143,8461538	234,3939394
104	30,33333333	43,05194805	62,04545455	92,4	147,2058824	236,4
105	30,51282051	43,15384615	62,33333333	93,5	147,3333333	236,7857143
106	30,64285714	43,33333333	63,08823529	93,75757576	150,6818182	238,3333333
107	30,8	43,63333333	63,14285714	94,71428571	151,0384615	243,1
108	30,82417582	44,2	64,16666667	95,33333333	151,6666667	248,1818182
109	31,16666667	44,42307692	64,90909091	97,5	153,2142857	251,7307692
110	31,57142857	44,52380952	65	98,1372549	154	252,3529412
111	32,05714286	45,29411765	66	99,16666667	154,7	255
112	32,11764706	45,5	66,3	100,1	155,8333333	256,6666667
113	32,45454545	45,76923077	66,73333333	100,4545455	157,8571429	256,8333333
114	32,5	46,2	66,78571429	100,6923077	160,2857143	261,8
115	33	46,3047619	66,96969697	102	160,5882353	265,2
116	33,36666667	46,36363636	67,12820513	102,1428571	162,0666667	267,1428571
117	33,48484848	46,87878788	67,94117647	103,1333333	162,2727273	273
118	33,56410256	47,14285714	68,0952381	104,1857143	165	274,6153846
119	33,97058824	47,35714286	68,65384615	105	166,8333333	280,5
120	34	47,6	69,45714286	105,2380952	167,8205128	281,2727273
121	34,04761905	47,66666667	70	107,8846154	168,7636364	286
122	34,71428571	47,94871795	70,31818182	108,1818182	170	289,4047619
123	34,72857143	49,06862745	70,65882353	109,2	171,6	294,4117647
124	35	49,63636364	71,4	110	173,6428571	297,5
125	35,32941176	50,22727273	71,5	110,5	174,5333333	300,3
126	35,45454545	50,34615385	71,92307692	112,2	176,6470588	301,3636364
127	35,53846154	50,47058824	72,85714286	115,5	177,6923077	302,0769231
128	35,7	51	73,66666667	115,7619048	178,5	303,3333333
129	35,96153846	51,07142857	74,8	117,1969697	182	306,4285714
130	36,05042017	51,33333333	75,83333333	117,7647059	184,1666667	309,4
131	36,06060606	51,56666667	77	119	187	311,6666667
132	36,4	52,5	78	119,1666667	189,4285714	315,7142857
133	36,42857143	52,61904762	78,92857143	120,5454545	192,5	324,1333333
134	36,66666667	53,42857143	79,33333333	120,8307692	195	324,5454545
135	36,83333333	53,52941176	80,14285714	122,5714286	196,2745098	330
136	37,4	54,09090909	80,29411765	124,0909091	198,3333333	331,5
137	37,88571429	54,6	81,13636364	124,6666667	200,2	333,6666667
138	38,5	54,92307692	82,5	126,1764706	200,3571429	335,6410256
139	39	55	82,72727273	127,5	200,9090909	347,2857143
140	39,23076923	55,71428571	83,91025641	128,3333333	201,3846154	351,5909091
141	39,25490196	56,1	84,11764706	130	204,2857143	353,2941176
142	39,66666667	56,25454545	84,38181818	130,9	206,2666667	357
143	40,07142857	56,66666667	85	132,6	208,3714286	357,5
144	40,14705882	57,2	85,8	133,4666667	210	368,3333333
145	40,18181818	57,88095238	86,1038961	133,5714286	210,9545455	374
146	40,27692308	58,88235294	86,30769231	135,8823529	214,5	385
147	40,85714286	59,23076923	87,26666667	136,5	215,7692308	390
148	42	59,5	88,32352941	137,3076923	218,1666667	392,7
149	42,05882353	60,27272727	88,4	138,9142857	221	396,6666667
150	42,19090909	60,41538462	88,84615385	140,6363636	227,5	400,4

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151	400,7142857	785,4	1870	7293
152	405,1666667	801,4285714	1963,5	7507,5
153	416,7428571	810,3333333	2002	7735
154	421,9090909	834,1666667	2025,8333333	7854
155	429	843,8181818	2083,714286	8103,333333
156	431,5384615	858	2109,545455	8508,5
157	436,3333333	868,2142857	2145	9282
158	441,6176471	872,6666667	2181,666667	9817,5
159	442	883,2352941	2210	10010
160	455	892,5	2268,933333	10210,2
161	462	910	2310	10418,57143
162	464,1	928,2	2320,5	11344,66667
163	467,5	935	2502,5	11602,5
164	468,7878788	947,1428571	2578,333333	12155
165	473,5714286	972,4	2604,642857	13090
166	476,6666667	1001	2618	14180,83333
167	486,2	1006,923077	2730	14586
168	500,5	1031,333333	2805	15015
169	503,4615385	1041,857143	2836,166667	15470
170	510	1054,772727	2917,2	17017
171	515,6666667	1072,5	3003	18232,5
172	520,9285714	1090,833333	3020,769231	19635
173	523,6	1105	3094	20420,4
174	546	1122	3238	23205
175	552,5	1134,466667	3272,5	24310
176	561	1155	3315	25525,5
177	567,2333333	1157,619048	3336,666667	28361,66667
178	577,5	1190	3403,4	30030
179	578,8095238	1201,2	3472,857143	34034
180	588,8235294	1215,5	3570	36465
181	595	1289,166667	3646,5	39270
182	600,6	1309	3867,5	42542,5
183	602,7272727	1326	3927	46410
184	604,1538462	1365	4051,666667	51051
185	612,8571429	1402,5	4219,090909	56723,33333
186	618,8	1406,363636	4290	72930
187	623,3333333	1430	4363,333333	85085
188	654,5	1458,6	4641	102102
189	663	1501,5	4862	127627,5
190	667,3333333	1510,384615	5005	170170
191	682,5	1547	5105,1	255255
192	694,5714286	1570,8	5156,666667	510510
193	703,1818182	1620,666667	5209,285714	
194	714	1668,333333	5610	
195	715	1687,5	5672,333333	
196	729,3	1701,7	6006	
197	736,6666667	1736,428571	6077,5	
198	755,1923077	1766,470588	6545	
199	770	1785	6630	
200	773,5	1856,4	6806,8	

$$C_{57} = 127$$

$$C_{87} = 1093$$