Σ of type G2

subset H	type of H	single cell	free	orbit basis
		YES	(YES)	(YES)
1	A_1	YES	(YES)	(YES)
2	A_1	YES	(YES)	(YES)
1, 2	G_2	YES	(YES)	(YES)

Σ of type F4

subset H	type of H	single cell	free	orbit basis
		YES	(YES)	(YES)
1	A_1	YES	(YES)	(YES)
2	A_1	YES	(YES)	(YES)
3	A_1	YES	(YES)	(YES)
4	A_1	YES	(YES)	(YES)
1, 2	A_2	YES	(YES)	(YES)
3,4	A_2	YES	(YES)	(YES)
2,3	B_2	YES	(YES)	(YES)
1, 2, 3	B_3	no	YES	YES
2, 3, 4	C_3	no	no	(YES)
1, 2, 3, 4	F_4	YES	(YES)	(YES)
1,3	$A_1 \times A_1$	no	YES	YES
1,4	$A_1 \times A_1$	no	YES	YES
2,4	$A_1 \times A_1$	no	YES	YES
1, 2, 4	$A_1 \times A_2$	no	YES	YES
1, 3, 4	$A_1 \times A_2$	no	YES	YES

Σ of type E6

		. 1		1.1
$\mathbf{subset}\ H$	$\mathbf{type} \mathbf{of} H$	$egin{aligned} ext{single} \ ext{cell} \end{aligned}$	\mathbf{free}	orbit basis
			(VEC)	
1	A_1	$\begin{array}{c} {\rm YES} \\ {\rm YES} \end{array}$	(YES) (YES)	(YES) (YES)
$\overset{1}{2}$	A_1 A_1	YES	(YES)	(YES)
3	A_1 A_1	YES	(YES)	(YES)
$\frac{3}{4}$	A_1 A_1	YES	(YES)	(YES)
5	A_1 A_1	YES	(YES)	(YES)
6	A_1 A_1	YES	(YES)	(YES)
1,3	$\stackrel{\scriptstyle A_1}{A_2}$	YES	(YES)	(YES)
2, 4	A_2	YES	(YES)	(YES)
3, 4	A_2	YES	(YES)	(YES)
4,5	A_2	YES	(YES)	(YES)
5, 6	A_2	YES	(YES)	(YES)
1, 3, 4	A_3	YES	(YES)	(YES)
2, 3, 4	A_3	YES	(YES)	(YES)
2, 4, 5	A_3	YES	(YES)	(YES)
3, 4, 5	A_3	YES	(YES)	(YES)
4, 5, 6	A_3	YES	(YES)	(YES)
1, 2, 3, 4	A_4	YES	(YES)	(YES)
1, 3, 4, 5	A_4	YES	(YES)	(YES)
2, 4, 5, 6	A_4	YES	(YES)	(YES)
3, 4, 5, 6	A_4	YES	(YES)	(YES)
1, 3, 4, 5, 6	A_5	no	YES	YES
2, 3, 4, 5	D_4	no	no	(no)
1, 2, 3, 4, 5	D_5	no	no	(no)
2, 3, 4, 5, 6	D_5	no	no	(no)
1, 2, 3, 4, 5, 6	E_6	YES	(YES)	(YES)
1, 2	$A_1 \times A_1$	no	YES	no
1,4	$A_1 \times A_1$	no	YES	no
1,5	$A_1 \times A_1$	no	YES	no
1, 6	$A_1 \times A_1$	no	YES	no
2,3	$A_1 \times A_1$	no	YES	no
2,5	$A_1 \times A_1$	no	YES	no
2,6	$A_1 \times A_1$	no	YES	no
3,5	$A_1 \times A_1$	no	YES	no
3,6	$A_1 \times A_1$	no	YES	no
4,6	$A_1 \times A_1$	no	YES	no
1, 2, 3	$A_1 \times A_2$	no	YES	no
1, 2, 4	$A_1 \times A_2$	no	YES	no
1, 3, 5	$A_1 \times A_2$	no	YES	no
1, 3, 6	$A_1 \times A_2$	no	YES	no
1, 4, 5	$A_1 \times A_2$	no	YES	no

1, 5, 6	$A_1 \times A_2$	no	YES	no
2, 4, 6	$A_1 \times A_2$	no	YES	no
2, 5, 6	$A_1 \times A_2$	no	YES	no
3, 4, 6	$A_1 \times A_2$	no	YES	no
3, 5, 6	$A_1 \times A_2$	no	YES	no
1, 2, 4, 5	$A_1 \times A_3$	no	YES	no
1, 3, 4, 6	$A_1 \times A_3$	no	YES	no
1, 4, 5, 6	$A_1 \times A_3$	no	YES	no
2, 3, 4, 6	$A_1 \times A_3$	no	YES	no
1, 2, 3, 4, 6	$A_1 \times A_4$	no	YES	no
1, 2, 4, 5, 6	$A_1 \times A_4$	no	YES	no
1, 3, 5, 6	$A_2 \times A_2$	no	YES	no
1, 2, 5	$A_1 \times A_1 \times A_1$	no	YES	no
1, 2, 6	$A_1 \times A_1 \times A_1$	no	YES	no
1, 4, 6	$A_1 \times A_1 \times A_1$	no	YES	no
2, 3, 5	$A_1 \times A_1 \times A_1$	no	YES	no
2, 3, 6	$A_1 \times A_1 \times A_1$	no	YES	no
1, 2, 3, 5	$A_1 \times A_1 \times A_2$	no	YES	no
1, 2, 3, 6	$A_1 \times A_1 \times A_2$	no	YES	no
1, 2, 4, 6	$A_1 \times A_1 \times A_2$	no	YES	no
1, 2, 5, 6	$A_1 \times A_1 \times A_2$	no	YES	no
2, 3, 5, 6	$A_1 \times A_1 \times A_2$	no	YES	no
1, 2, 3, 5, 6	$A_1 \times A_2 \times A_2$	no	YES	no

Σ of type E7

subset H	type of H	single cell	free	orbit basis
		YES	(YES)	(YES)
1	A_1	YES	(YES)	(YES)
2	A_1	YES	(YES)	(YES)
3	A_1	YES	(YES)	(YES)
4	A_1	YES	(YES)	(YES)
5	A_1	YES	(YES)	(YES)
6	A_1	YES	(YES)	(YES)
7	A_1	YES	(YES)	(YES)
1,3	A_2	YES	(YES)	(YES)
2, 4	A_2^2	YES	(YES)	(YES)
3,4	A_2^2	YES	(YES)	(YES)
4,5	A_2^2	YES	(YES)	(YES)
5,6	A_2	YES	(YES)	(YES)
6,7	A_2^2	YES	(YES)	(YES)
1, 3, 4	A_3^2	YES	(YES)	(YES)
2, 3, 4	A_3	YES	(YES)	(YES)
2, 4, 5	A_3	YES	(YES)	(YES)
3, 4, 5	A_3	YES	(YES)	(YES)
4, 5, 6	A_3	YES	(YES)	(YES)
5, 6, 7	A_3	YES	(YES)	(YES)
1, 2, 3, 4	A_4	YES	(YES)	(YES)
1, 3, 4, 5	A_4	YES	(YES)	(YES)
2, 4, 5, 6	A_4	YES	(YES)	(YES)
3, 4, 5, 6	A_4	YES	(YES)	(YES)
4, 5, 6, 7	A_4	YES	(YES)	(YES)
1, 3, 4, 5, 6	A_5	no	YES	YES
2, 4, 5, 6, 7	A_5	YES	(YES)	(YES)
3, 4, 5, 6, 7	A_5	no	YES	YES
1, 3, 4, 5, 6, 7	A_6	no	YES	YES
2, 3, 4, 5	D_4	no	no	(no)
1, 2, 3, 4, 5	D_5	no	no	(no)
2, 3, 4, 5, 6	D_5	no	no	(no)
2, 3, 4, 5, 6, 7	D_6	no	no	(no)
1, 2, 3, 4, 5, 6	E_6	YES	(YES)	(YES)
1, 2, 3, 4, 5, 6, 7	E_7	YES	(YES)	(YES)
1, 2	$A_1 \times A_1$	no	YES	no
1,4	$A_1 \times A_1$	no	YES	no
1,5	$A_1 \times A_1$	no	YES	no
1,6	$A_1 \times A_1$	no	YES	no
1,7	$A_1 \times A_1$	no	YES	no
2,3	$A_1 \times A_1$	no	YES	no

$A_1 \times A_1$ $A_1 \times A_2$	no n	YES	no n
$A_1 \times A_1$ $A_1 \times A_2$	no n	YES	no
$A_1 \times A_1$ $A_1 \times A_2$	no	YES	no
$A_1 \times A_1$ $A_1 \times A_2$	no	YES	no no no no no no no
$A_1 \times A_1$ $A_1 \times A_2$	no no no no no no no	YES YES YES YES YES YES YES YES YES	no no no no no no
$A_1 \times A_1$ $A_1 \times A_1$ $A_1 \times A_1$ $A_1 \times A_1$ $A_1 \times A_2$	no no no no no no no	YES YES YES YES YES YES	no no no no no no
$A_1 \times A_1$ $A_1 \times A_1$ $A_1 \times A_1$ $A_1 \times A_2$	no no no no no no	YES YES YES YES YES	no no no no no
$A_1 \times A_1$ $A_1 \times A_2$	no no no no no no	YES YES YES YES YES	no no no no
$A_1 \times A_1$ $A_1 \times A_2$	no no no no no	YES YES YES YES	no no no
$A_1 \times A_2$ $A_1 \times A_2$ $A_1 \times A_2$ $A_1 \times A_2$ $A_1 \times A_2$ $A_1 \times A_2$	no no no no	YES YES YES	no no
$A_1 \times A_2$ $A_1 \times A_2$ $A_1 \times A_2$ $A_1 \times A_2$ $A_1 \times A_2$	no no no	YES YES	no
$A_1 \times A_2$	no no	YES	
$A_1 \times A_2 \\ A_1 \times A_2 \\ A_1 \times A_2$	no		
$A_1 \times A_2 \\ A_1 \times A_2$			no
$A_1 \times A_2$	110	YES	no
	no	YES	no
/L. V /L.		YES	
$A_1 \times A_2$	no		no
			no
_			no
	no		no
	no		no
	no		(no)
	no		(no)
	no		no
$A_1 \times A_4$	no	YES	no
$A_1 \times A_5$	no	YES	no
$A_1 \times D_4$	no	no	(no)
$A_1 \times D_5$	no	no	(no)
5			
	$A_1 \times D_4 \\ A_1 \times D_5$	$A_1 \times A_2$ no $A_1 \times A_3$ no $A_1 \times A_4$ no $A_1 $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

1, 3, 5, 6	$A_2 \times A_2$	no	YES	no
1, 3, 6, 7	$A_2 \times A_2$	no	YES	no
2, 4, 6, 7	$A_2 \times A_2$	no	YES	no
3, 4, 6, 7	$A_2 \times A_2$	no	YES	no
1, 3, 4, 6, 7	$A_2 \times A_3$	no	YES	no
1, 3, 5, 6, 7	$A_2 \times A_3$	no	YES	no
2, 3, 4, 6, 7	$A_2 \times A_3$	no	YES	no
1, 2, 3, 4, 6, 7	$A_2 \times A_4$	no	YES	no
1, 2, 5	$A_1 \times A_1 \times A_1$	no	YES	no
1, 2, 6	$A_1 \times A_1 \times A_1$	no	YES	no
1, 2, 7	$A_1 \times A_1 \times A_1$	no	YES	no
1, 4, 6	$A_1 \times A_1 \times A_1$	no	YES	no
1, 4, 7	$A_1 \times A_1 \times A_1$	no	YES	no
1, 5, 7	$A_1 \times A_1 \times A_1$	no	YES	no
2, 3, 5	$A_1 \times A_1 \times A_1$	no	YES	no
2, 3, 6	$A_1 \times A_1 \times A_1$	no	YES	no
2, 3, 7	$A_1 \times A_1 \times A_1$	no	YES	no
2, 5, 7	$A_1 \times A_1 \times A_1$	no	no	(no)
3, 5, 7	$A_1 \times A_1 \times A_1$	no	YES	no
1, 2, 3, 5	$A_1 \times A_1 \times A_2$	no	YES	no
1, 2, 3, 6	$A_1 \times A_1 \times A_2$	no	YES	no
1, 2, 3, 7	$A_1 \times A_1 \times A_2$	no	YES	no
1, 2, 4, 6	$A_1 \times A_1 \times A_2$	no	YES	no
1, 2, 4, 7	$A_1 \times A_1 \times A_2$	no	YES	no
1, 2, 5, 6	$A_1 \times A_1 \times A_2$	no	YES	no
1, 2, 6, 7	$A_1 \times A_1 \times A_2$	no	YES	no
1, 3, 5, 7	$A_1 \times A_1 \times A_2$	no	YES	no
1, 4, 5, 7	$A_1 \times A_1 \times A_2$	no	YES	no
1, 4, 6, 7	$A_1 \times A_1 \times A_2$	no	YES	no
2, 3, 5, 6	$A_1 \times A_1 \times A_2$	no	YES	no
2, 3, 6, 7	$A_1 \times A_1 \times A_2$	no	YES	no
1, 2, 4, 5, 7	$A_1 \times A_1 \times A_3$	no	no	(no)
1, 2, 5, 6, 7	$A_1 \times A_1 \times A_3$	no	no	(no)
2, 3, 5, 6, 7	$A_1 \times A_1 \times A_3$	no	no	(no)
1, 2, 3, 5, 6	$A_1 \times A_2 \times A_2$	no	YES	no
1, 2, 3, 6, 7	$A_1 \times A_2 \times A_2$	no	YES	no
1, 2, 4, 6, 7	$A_1 \times A_2 \times A_2$	no	YES	no
1, 2, 3, 5, 6, 7	$A_1 \times A_2 \times A_3$	no	no	(no)
1, 2, 5, 7	$A_1 \times A_1 \times A_1 \times A_1$	no	no	(no)
2, 3, 5, 7	$A_1 \times A_1 \times A_1 \times A_1$	no	no	(no)
1, 2, 3, 5, 7	$A_1 \times A_1 \times A_1 \times A_2$	no	no	(no)

Σ of type E8

subset H	type of H	single cell	free	orbit basis
		YES	(VFC)	(???)
1	A_1	YES	(YES) (YES)	(???)
2	A_1 A_1	YES	(YES)	(???)
$\frac{2}{3}$	A_1 A_1	YES	(YES)	(???)
4	A_1 A_1	YES	(YES)	(???)
5	A_1 A_1	YES	(YES)	(???)
6		YES	(YES)	(???)
7	A_1		(YES)	(???)
8	A_1	YES	` /	
	A_1	YES	(YES)	(???)
1,3	A_2	YES	(YES)	(???)
2,4	A_2	YES	(YES)	(???)
3, 4 4, 5	A_2	YES VES	(YES)	(???)
	A_2	YES	(YES)	(???)
5,6	A_2	YES	(YES)	(???)
6,7	A_2	YES	(YES)	(???)
7,8	A_2	YES	(YES)	(???)
1,3,4	A_3	YES	(YES)	(???)
2, 3, 4	A_3	YES	(YES)	(???)
2,4,5	A_3	YES	(YES)	(???)
3,4,5	A_3	YES	(YES)	(???)
4, 5, 6	A_3	YES	(YES)	(???)
5, 6, 7	A_3	YES	(YES)	(???)
6,7,8	A_3	YES	(YES)	(???)
1,2,3,4	A_4	YES	(YES) (YES)	(???)
1, 3, 4, 5	A_4	YES	(YES)	(???)
2, 4, 5, 6	A_4	$egin{array}{c} egin{array}{c} egin{array}$	(YES)	(???)
3, 4, 5, 6	A_4	YES	(YES)	(???) $(???)$
4, 5, 6, 7	A_4	YES	(YES)	(???)
5, 6, 7, 8	A_4		YES	???
1, 3, 4, 5, 6	A_5	no		???
2, 4, 5, 6, 7	A_5	no	YES	???
3,4,5,6,7	A_5	no	YES	???
4, 5, 6, 7, 8	A_5	no	YES VES	???
1, 3, 4, 5, 6, 7	A_6	no	YES VES	???
2, 4, 5, 6, 7, 8	A_6	no	YES VES	???
3,4,5,6,7,8	A_6	no	$\begin{array}{c} { m YES} \\ { m YES} \end{array}$???
1, 3, 4, 5, 6, 7, 8	A_7	no		
2, 3, 4, 5	D_4	no	no	(???)
1, 2, 3, 4, 5	D_5	no	no	(???)
2, 3, 4, 5, 6	D_5	no	no	(???)
2, 3, 4, 5, 6, 7	D_6	no	no	(???)

2, 3, 4, 5, 6, 7, 8	D_7	no	no	(???)
1, 2, 3, 4, 5, 6	E_6	YES	(YES)	(???)
1, 2, 3, 4, 5, 6, 7	E_7	no	no	(???)
1, 2, 3, 4, 5, 6, 7, 8	E_8	YES	(YES)	(???)
1,2	$A_1 \times A_1$	no	YES	???
1,4	$A_1 \times A_1$	no	YES	???
1,5	$A_1 \times A_1$	no	YES	???
1,6	$A_1 \times A_1$	no	YES	???
1,7	$A_1 \times A_1$	no	YES	???
1,8	$A_1 \times A_1$	no	YES	???
2, 3	$A_1 \times A_1$	no	YES	???
2,5	$A_1 \times A_1$	no	YES	???
2,6	$A_1 \times A_1$	no	YES	???
2,7	$A_1 \times A_1$	no	YES	???
2, 8	$A_1 \times A_1$	no	YES	???
3,5	$A_1 \times A_1$	no	YES	???
3,6	$A_1 \times A_1$	no	YES	???
3,7	$A_1 \times A_1$	no	YES	???
3, 8	$A_1 \times A_1$	no	YES	???
4,6	$A_1 \times A_1$	no	YES	???
4,7	$A_1 \times A_1$	no	YES	???
4, 8	$A_1 \times A_1$	no	YES	???
5,7	$A_1 \times A_1$	no	YES	???
5, 8	$A_1 \times A_1$	no	YES	???
6, 8	$A_1 \times A_1$	no	YES	???
1, 2, 3	$A_1 \times A_2$	no	YES	???
1, 2, 4	$A_1 \times A_2$	no	YES	???
1, 3, 5	$A_1 \times A_2$	no	YES	???
1, 3, 6	$A_1 \times A_2$	no	YES	???
1, 3, 7	$A_1 \times A_2$	no	YES	???
1, 3, 8	$A_1 \times A_2$	no	YES	???
1, 4, 5	$A_1 \times A_2$	no	YES	???
1, 5, 6	$A_1 \times A_2$	no	YES	???
1, 6, 7	$A_1 \times A_2$	no	YES	???
1, 7, 8	$A_1 \times A_2$	no	YES	???
2, 4, 6	$A_1 \times A_2$	no	YES	???
2, 4, 7	$A_1 \times A_2$	no	YES	???
2, 4, 8	$A_1 \times A_2$	no	YES	???
2, 5, 6	$A_1 \times A_2$	no	YES	???
2, 6, 7	$A_1 \times A_2$	no	YES	???
2, 7, 8	$A_1 \times A_2$	no	YES	???
3, 4, 6	$A_1 \times A_2$	no	YES	???
3, 4, 7	$A_1 \times A_2$	no	YES	???
3, 4, 8	$A_1 \times A_2$	no	YES	???
3, 5, 6	$A_1 \times A_2$	no	YES	???
3, 6, 7	$A_1 \times A_2$	no	YES	???

3, 7, 8	$A_1 \times A_2$	no	YES	???
4, 5, 7	$A_1 \times A_2$	no	YES	???
4, 5, 8	$A_1 \times A_2$	no	YES	???
4, 6, 7	$A_1 \times A_2$	no	YES	???
4, 7, 8	$A_1 \times A_2$	no	YES	???
5, 6, 8	$A_1 \times A_2$	no	YES	???
5, 7, 8	$A_1 \times A_2$	no	YES	???
1, 2, 4, 5	$A_1 \times A_3$	no	YES	???
1, 2, 4, 6 $1, 3, 4, 6$	$A_1 \times A_3$ $A_1 \times A_3$	no	YES	???
1, 3, 4, 0 $1, 3, 4, 7$	$A_1 \times A_3$ $A_1 \times A_3$		YES	???
1, 3, 4, 7	- "	no	YES	???
	$A_1 \times A_3$	no		???
1, 4, 5, 6	$A_1 \times A_3$	no	YES	
1, 5, 6, 7	$A_1 \times A_3$	no	YES	???
1, 6, 7, 8	$A_1 \times A_3$	no	YES	???
2, 3, 4, 6	$A_1 \times A_3$	no	YES	???
2, 3, 4, 7	$A_1 \times A_3$	no	YES	???
2, 3, 4, 8	$A_1 \times A_3$	no	YES	???
2, 4, 5, 7	$A_1 \times A_3$	no	YES	???
2, 4, 5, 8	$A_1 \times A_3$	no	YES	???
2, 5, 6, 7	$A_1 \times A_3$	no	YES	???
2, 6, 7, 8	$A_1 \times A_3$	no	YES	???
3, 4, 5, 7	$A_1 \times A_3$	no	YES	???
3, 4, 5, 8	$A_1 \times A_3$	no	YES	???
3, 5, 6, 7	$A_1 \times A_3$	no	YES	???
3, 6, 7, 8	$A_1 \times A_3$	no	YES	???
4, 5, 6, 8	$A_1 \times A_3$	no	YES	???
4, 6, 7, 8	$A_1 \times A_3$	no	YES	???
1, 2, 3, 4, 6	$A_1 \times A_4$	no	YES	???
1, 2, 3, 4, 7	$A_1 \times A_4$	no	YES	???
1, 2, 3, 4, 8	$A_1 \times A_4$	no	YES	???
1, 2, 4, 5, 6	$A_1 \times A_4$	no	YES	???
1, 3, 4, 5, 7	$A_1 \times A_4$	no	YES	???
1, 3, 4, 5, 8	$A_1 \times A_4$	no	YES	???
1, 4, 5, 6, 7	$A_1 \times A_4$	no	YES	???
1, 5, 6, 7, 8	$A_1 \times A_4$	no	YES	???
2, 4, 5, 6, 8	$A_1 \times A_4$	no	YES	???
2, 5, 6, 7, 8	$A_1 \times A_4$	no	YES	???
3, 4, 5, 6, 8	$A_1 \times A_4$	no	YES	???
3, 5, 6, 7, 8	$A_1 \times A_4$	no	YES	???
1, 2, 4, 5, 6, 7	$A_1 \times A_5$	no	YES	???
1, 3, 4, 5, 6, 8	$A_1 \times A_5$	no	YES	???
1, 4, 5, 6, 7, 8	$A_1 \times A_5$		YES	???
1, 2, 4, 5, 6, 7, 8	$A_1 \wedge A_5$ $A_1 \times A_6$	no	YES	???
2, 3, 4, 5, 7	$A_1 \times A_6$ $A_1 \times D_4$	no		(???)
2, 3, 4, 5, 8	$A_1 \times D_4$ $A_1 \times D_4$	no	no	2 1
1, 2, 3, 4, 5, 7		no	no	(???)
1, 4, 5, 4, 5, 1	$A_1 \times D_5$	no	no	(???)

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1, 2, 3, 4, 5, 8	$A_1 \times D_5$	no	no	(???)
2, 3, 4, 5, 6, 8	$A_1 \times D_5$	no	no	(???)
1, 2, 3, 4, 5, 6, 8	$A_1 \times E_6$	no	YES	???
1, 3, 5, 6	$A_2 \times A_2$	no	YES	???
1, 3, 6, 7	$A_2 \times A_2$	no	YES	???
1, 3, 7, 8	$A_2 \times A_2$	no	YES	???
2, 4, 6, 7	$A_2 \times A_2$	no	YES	???
2, 4, 7, 8	$A_2 \times A_2$	no	YES	???
3, 4, 6, 7	$A_2 \times A_2$	no	YES	???
3, 4, 7, 8	$A_2 \times A_2$	no	YES	???
4, 5, 7, 8	$A_2 \times A_2$	no	YES	???
1, 3, 4, 6, 7	$A_2 \times A_3$	no	YES	???
1, 3, 4, 7, 8	$A_2 \times A_3$	no	YES	???
1, 3, 5, 6, 7	$A_2 \times A_3$	no	YES	???
1, 3, 6, 7, 8	$A_2 \times A_3$	no	YES	???
2, 3, 4, 6, 7	$A_2 \times A_3$	no	YES	???
2, 3, 4, 7, 8	$A_2 \times A_3$	no	YES	???
2, 4, 5, 7, 8	$A_2 \times A_3$	no	YES	???
2, 4, 6, 7, 8	$A_2 \times A_3$	no	YES	???
3, 4, 5, 7, 8	$A_2 \times A_3$	no	YES	???
3, 4, 6, 7, 8	$A_2 \times A_3$	no	YES	???
1, 2, 3, 4, 6, 7	$A_2 \times A_4$	no	YES	???
1, 2, 3, 4, 7, 8	$A_2 \times A_4$	no	YES	???
1, 3, 4, 5, 7, 8	$A_2 \times A_4$	no	YES	???
1, 3, 5, 6, 7, 8	$A_2 \times A_4$	no	YES	???
2, 3, 4, 5, 7, 8	$A_2 \times D_4$	no	no	(???)
1, 2, 3, 4, 5, 7, 8	$A_2 \times D_4$ $A_2 \times D_5$	no	no	(???)
1, 2, 6, 1, 6, 7, 8 $1, 3, 4, 6, 7, 8$	$A_3 \times A_3$	no	YES	???
2, 3, 4, 6, 7, 8	$A_3 \times A_3$	no	YES	???
1, 2, 3, 4, 6, 7, 8	$A_3 \times A_4$	no	YES	???
1, 2, 5, 4, 6, 7, 6 $1, 2, 5$	$A_1 \times A_1 \times A_1$	no	YES	???
1, 2, 6 $1, 2, 6$	$A_1 \times A_1 \times A_1$ $A_1 \times A_1 \times A_1$	no	YES	???
1, 2, 0 $1, 2, 7$	$A_1 \times A_1 \times A_1$ $A_1 \times A_1 \times A_1$		YES	???
1, 2, 8		no	YES	???
	$A_1 \times A_1 \times A_1$	no	YES	???
1, 4, 6	$A_1 \times A_1 \times A_1$	no		???
1,4,7	$A_1 \times A_1 \times A_1$	no	YES	???
1,4,8	$A_1 \times A_1 \times A_1$	no	YES	
1, 5, 7	$A_1 \times A_1 \times A_1$	no	YES	???
1, 5, 8	$A_1 \times A_1 \times A_1$	no	YES	???
1,6,8	$A_1 \times A_1 \times A_1$	no	YES	???
2, 3, 5	$A_1 \times A_1 \times A_1$	no	YES	???
2, 3, 6	$A_1 \times A_1 \times A_1$	no	YES	???
2, 3, 7	$A_1 \times A_1 \times A_1$	no	YES	???
2, 3, 8	$A_1 \times A_1 \times A_1$	no	YES	???
2, 5, 7	$A_1 \times A_1 \times A_1$	no	YES	???
2, 5, 8	$A_1 \times A_1 \times A_1$	no	YES	???

2, 6, 8	$A_1 \times A_1 \times A_1$	no	YES	???
3, 5, 7	$A_1 \times A_1 \times A_1$	no	YES	???
3, 5, 8	$A_1 \times A_1 \times A_1$	no	YES	???
3, 6, 8	$A_1 \times A_1 \times A_1$	no	YES	???
4, 6, 8	$A_1 \times A_1 \times A_1$	no	YES	???
1, 2, 3, 5	$A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 3, 6	$A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 3, 7	$A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 3, 8	$A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 4, 6	$A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 4, 7	$A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 4, 8	$A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 5, 6	$A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 6, 7	$A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 7, 8	$A_1 \times A_1 \times A_2$	no	YES	???
1, 3, 5, 7	$A_1 \times A_1 \times A_2$	no	YES	???
1, 3, 5, 8	$A_1 \times A_1 \times A_2$	no	YES	???
1, 3, 6, 8	$A_1 \times A_1 \times A_2$	no	YES	???
1, 4, 5, 7	$A_1 \times A_1 \times A_2$	no	YES	???
1, 4, 5, 8	$A_1 \times A_1 \times A_2$	no	YES	???
1, 4, 6, 7	$A_1 \times A_1 \times A_2$	no	YES	???
1, 4, 7, 8	$A_1 \times A_1 \times A_2$	no	YES	???
1, 5, 6, 8	$A_1 \times A_1 \times A_2$	no	YES	???
1, 5, 7, 8	$A_1 \times A_1 \times A_2$	no	YES	???
2, 3, 5, 6	$A_1 \times A_1 \times A_2$	no	YES	???
2, 3, 6, 7	$A_1 \times A_1 \times A_2$	no	YES	???
2, 3, 7, 8	$A_1 \times A_1 \times A_2$	no	YES	???
2, 4, 6, 8	$A_1 \times A_1 \times A_2$	no	YES	???
2, 5, 6, 8	$A_1 \times A_1 \times A_2$	no	YES	???
2, 5, 7, 8	$A_1 \times A_1 \times A_2$	no	YES	???
3, 4, 6, 8	$A_1 \times A_1 \times A_2$	no	YES	???
3, 5, 6, 8	$A_1 \times A_1 \times A_2$	no	YES	???
3, 5, 7, 8	$A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 4, 5, 7	$A_1 \times A_1 \times A_3$	no	YES	???
1, 2, 4, 5, 8	$A_1 \times A_1 \times A_3$	no	YES	???
1, 2, 5, 6, 7	$A_1 \times A_1 \times A_3$	no	YES	???
1, 2, 6, 7, 8	$A_1 \times A_1 \times A_3$	no	YES	???
1, 3, 4, 6, 8	$A_1 \times A_1 \times A_3$	no	YES	???
1, 4, 5, 6, 8	$A_1 \times A_1 \times A_3$	no	YES	???
1, 4, 6, 7, 8	$A_1 \times A_1 \times A_3$	no	YES	???
2, 3, 4, 6, 8	$A_1 \times A_1 \times A_3$	no	YES	???
2, 3, 5, 6, 7	$A_1 \times A_1 \times A_3$	no	YES	???
2, 3, 6, 7, 8	$A_1 \times A_1 \times A_3$	no	YES	???
1, 2, 3, 4, 6, 8	$A_1 \times A_1 \times A_4$	no	YES	???
1, 2, 4, 5, 6, 8	$A_1 \times A_1 \times A_4$	no	YES	???
1, 2, 5, 6, 7, 8	$A_1 \times A_1 \times A_4$	no	YES	???
-, - ,	1 / , 2-1 / , 2-4	-10		

2, 3, 5, 6, 7, 8	$A_1 \times A_1 \times A_4$	no	YES	???
1, 2, 3, 5, 6	$A_1 \times A_2 \times A_2$	no	YES	???
1, 2, 3, 6, 7	$A_1 \times A_2 \times A_2$	no	YES	???
1, 2, 3, 7, 8	$A_1 \times A_2 \times A_2$	no	YES	???
1, 2, 4, 6, 7	$A_1 \times A_2 \times A_2$	no	YES	???
1, 2, 4, 7, 8	$A_1 \times A_2 \times A_2$	no	YES	???
1, 3, 5, 6, 8	$A_1 \times A_2 \times A_2$	no	YES	???
1, 3, 5, 7, 8	$A_1 \times A_2 \times A_2$	no	YES	???
1, 4, 5, 7, 8	$A_1 \times A_2 \times A_2$	no	YES	???
1, 2, 3, 5, 6, 7	$A_1 \times A_2 \times A_3$	no	YES	???
1, 2, 3, 6, 7, 8	$A_1 \times A_2 \times A_3$	no	YES	???
1, 2, 4, 5, 7, 8	$A_1 \times A_2 \times A_3$	no	YES	???
1, 2, 4, 6, 7, 8	$A_1 \times A_2 \times A_3$	no	YES	???
1, 2, 3, 5, 6, 7, 8	$A_1 \times A_2 \times A_4$	no	YES	???
1, 2, 5, 7	$A_1 \times A_1 \times A_1 \times A_1$	no	YES	???
1, 2, 5, 8	$A_1 \times A_1 \times A_1 \times A_1$	no	YES	???
1, 2, 6, 8	$A_1 \times A_1 \times A_1 \times A_1$	no	YES	???
1, 4, 6, 8	$A_1 \times A_1 \times A_1 \times A_1$	no	YES	???
2, 3, 5, 7	$A_1 \times A_1 \times A_1 \times A_1$	no	YES	???
2, 3, 5, 8	$A_1 \times A_1 \times A_1 \times A_1$	no	YES	???
2, 3, 6, 8	$A_1 \times A_1 \times A_1 \times A_1$	no	YES	???
1, 2, 3, 5, 7	$A_1 \times A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 3, 5, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 3, 6, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 4, 6, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 5, 6, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 5, 7, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	YES	???
2, 3, 5, 6, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	YES	???
2, 3, 5, 7, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	YES	???
1, 2, 3, 5, 6, 8	$A_1 \times A_1 \times A_2 \times A_2$	no	YES	???
1, 2, 3, 5, 7, 8	$A_1 \times A_1 \times A_2 \times A_2$	no	YES	???