					111												11/2					
					P_1												P_2					
$4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32) \\ \hspace{0.2cm} (1,12,10,12,12,13,13,13,13,13,13,13,13,13,13,13,13,13,$	(1,10)(4,11,9)(5,24,22)(6,28,26)(7,23,21)(8,27,25)(13,32,19)(15,31,17)	$0)(2,25,3,26)(5,27,7,28)(6,21,8,22)(9,31,10,32)(11,13,12,15)(14,17,16,19)(23,30,24,29) \\ \hspace*{0.2cm} (1,2,4,3)(5,9,7,10)(6,11,8,12,15)(14,17,16,19)($	$8, 12)(13, 21, 15, 22)(14, 23, 16, 24)(17, 25, 19, 26)(18, 27, 20, 28)(29, 31, 30, 32) \\ (1, 9, 12, 4, 10, 11)(2, 3)(5, 21, 24, 7, 22, 23)(6, 25, 28, 8, 26, 27)(13, 17, 32, 23, 23, 23, 23, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24$	32, 15, 19, 31)(14, 16)(18, 20)(29, 30) (1, 13, 18, 12, 4, 15, 20, 11)(2, 7, 25, 28, 3, 5, 26, 27)(6, 30, 21, 24, 8, 29, 22, 23)(9, 19, 31, 14, 10, 17, 32, 16) (13, 18, 12, 12, 12, 13, 12, 14, 15, 12, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	(1, 12, 20, 13, 4, 11, 18, 15)(2, 28, 26, 7, 3, 27, 25, 5)(6, 24, 22, 30, 8, 23, 21, 29)(9, 14, 32, 19, 10, 16, 31, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	(1, 29, 9, 21, 13, 27, 4, 30, 10, 22, 15, 28)(2, 16, 3, 14)(5, 11, 6, 32, 24, 20, 7, 12, 12, 13, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	$12, 8, 31, 23, 18) (17, 26, 19, 25) \\ (1, 27, 15, 21, 10, 29, 4, 28, 13, 22, 9, 30) (2, 16, 3, 14) (5, 20, 23, 32, 8, 11, 7, 18, 24, 31, 6, 12) (17, 26, 19, 25) \\ (1, 27, 15, 21, 10, 29, 4, 28, 13, 22, 9, 30) (2, 16, 3, 14) (5, 20, 23, 32, 8, 11, 7, 18, 24, 31, 6, 12) (17, 26, 19, 25) \\ (1, 27, 15, 21, 10, 29, 4, 28, 13, 22, 9, 30) (2, 16, 3, 14) (5, 20, 23, 32, 8, 11, 7, 18, 24, 31, 6, 12) (17, 26, 19, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20$	(1,5,13,26,18,27,12,2,4,7,15,25,20,28,11,3)(6,17,30,	$30, 32, 21, 16, 24, 9, 8, 19, 29, 31, 22, 14, 23, 10) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ 30, 32, 21, 16, 24, 9, 8, 19, 29, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10$	$,9,29,14) (1,27,15,3,18,7,11,26,4,28,13,2,20,5,12,25) \\ (6,16,29,10,21,19,23,32,8,12,23,14,14,14,14,14,14,14,14,14,14,14,14,14,$	$,14,30,9,22,17,24,31) (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (6,9,23,16,22,32,29,17,8,10,24,14,21,31,30,19) () (1,4,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,24,24,24,24,24,24,24,24,24,24,24,24,24,$	(1,4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(19,10)(1	25, 26)(27, 28)(29, 30)(31, 32) (1, 20, 32)(2, 26, 22)(3, 25, 21)(4, 18, 31)(11, 14, 19)(12, 16, 17)(23, 29, 28)(24, 30, 27)	(1, 19, 32)(4, 17, 31)(6, 21, 30)(8, 22, 29)(11, 20, 15)(12, 18, 13)(23, 26, 28)(24, 25, 27)	(1, 23, 4, 24)(2, 31, 3, 32)(5, 9, 7, 10)(6, 20, 8, 18)(11, 26, 12, 25)(13, 30, 15, 29)(14, 28, 16, 27)(17, 21, 19, 22, 23, 24, 24)(19, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	22) (1, 27, 4, 28)(2, 15, 3, 13)(5, 10, 7, 9)(6, 16, 8, 14)(11, 21, 12, 22)(17, 29, 19, 30)(18, 26, 20, 25)(17, 29, 19, 30)(18, 26, 20, 25)(17, 29, 19, 30)(18, 26, 20, 25)(17, 29, 19, 30)(18, 26, 20, 25)(17, 29, 19, 30)(18, 26, 20, 25)(17, 29, 19, 30)(18, 26, 20, 25)(17, 29, 19, 30)(18, 26, 20, 25)(17, 29, 19, 30)(18, 26, 20, 25)(19, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	(25)(23,32,24,31) (1,4)(2,30,26,3,29,25)(5,7)(6,22,27,8,21,28)(9,10)(11,31,15,15)(11,11,12,13)(11,12,13)(11,12,13)(11,12,13)(11,13)(11,13)(11,13)(11,13)(11,13)(11,13)(11,13)(11,13)(11,13)(11,1	12, 32, 13)(14, 18, 19, 16, 20, 17)(23, 24) (1, 17, 32, 4, 19, 31)(2, 3)(5, 7)(6, 22, 30, 8, 21, 29)(9, 10)(11, 18, 15, 12, 20, 13)(14, 16)(23, 25, 28, 24, 26, 27) (1, 24, 43, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12	23)(2, 11, 30, 31, 26, 15, 3, 12, 29, 32, 25, 13)(5, 10, 7, 9)(6, 16, 22, 20, 27, 17, 8, 12, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	$14, 21, 18, 28, 19) (1, 6, 18, 2, 11, 27, 4, 8, 20, 3, 12, 28) \\ (5, 10, 7, 9) \\ (13, 29, 14, 21, 31, 23, 15, 30, 16, 22, 32, 24) \\ (17, 26, 19, 25) (1, 8, 31, 23, 15, 20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1$	30, 19, 22, 4, 6, 32, 29, 17, 21)(2, 16, 3, 14)(5, 9, 7, 10)(11, 23, 13, 27, 20, 26, 12, 24, 15, 28, 18, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	25) (1, 8, 18, 3, 11, 28, 4, 6, 20, 2, 12, 27)(5, 9, 7, 10)(13, 30, 14, 22, 31, 24, 15, 29, 16, 21, 32, 23)(17, 25, 19, 26)
$4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32) \\ \hspace{0.2cm} (1,12,10,12,13,13,13,13,13,13,13,13,13,13,13,13,13,$	(1,10)(4,11,9)(5,24,22)(6,28,26)(7,23,21)(8,27,25)(13,32,19)(15,31,17)	$0)(2,25,3,26)(5,27,7,28)(6,21,8,22)(9,31,10,32)(11,13,12,15)(14,17,16,19)(23,30,24,29) \\ \hspace*{0.2cm} (1,2,4,3)(5,9,7,10)(6,11,8,12,15)(14,17,16,19)($	$8, 12)(13, 21, 15, 22)(14, 23, 16, 24)(17, 25, 19, 26)(18, 27, 20, 28)(29, 31, 30, 32) \\ (1, 9, 12, 4, 10, 11)(2, 3)(5, 21, 24, 7, 22, 23)(6, 25, 28, 8, 26, 27)(13, 17, 32, 23, 23, 23, 23, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24$	32, 15, 19, 31)(14, 16)(18, 20)(29, 30) (1, 13, 18, 12, 4, 15, 20, 11)(2, 7, 25, 28, 3, 5, 26, 27)(6, 30, 21, 24, 8, 29, 22, 23)(9, 19, 31, 14, 10, 17, 32, 16) (1, 13, 18, 12, 4, 15, 20, 11)(2, 7, 25, 28, 3, 5, 26, 27)(6, 30, 21, 24, 8, 29, 22, 23)(9, 19, 31, 14, 10, 17, 32, 16) (1, 13, 18, 12, 4, 15, 20, 11)(2, 7, 25, 28, 3, 5, 26, 27)(6, 30, 21, 24, 8, 29, 22, 23)(9, 19, 31, 14, 10, 17, 32, 16)	(1, 12, 20, 13, 4, 11, 18, 15)(2, 28, 26, 7, 3, 27, 25, 5)(6, 24, 22, 30, 8, 23, 21, 29)(9, 14, 32, 19, 10, 16, 31, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	(1, 29, 9, 21, 13, 27, 4, 30, 10, 22, 15, 28)(2, 16, 3, 14)(5, 11, 6, 32, 24, 20, 7, 12, 12, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	$12, 8, 31, 23, 18) (17, 26, 19, 25) \\ (1, 27, 15, 21, 10, 29, 4, 28, 13, 22, 9, 30) (2, 16, 3, 14) (5, 20, 23, 32, 8, 11, 7, 18, 24, 31, 6, 12) (17, 26, 19, 25) \\ (1, 27, 15, 21, 10, 29, 4, 28, 13, 22, 9, 30) (2, 16, 3, 14) (5, 20, 23, 32, 8, 11, 7, 18, 24, 31, 6, 12) (17, 26, 19, 25) \\ (1, 27, 15, 21, 10, 29, 4, 28, 13, 22, 9, 30) (2, 16, 3, 14) (5, 20, 23, 32, 8, 11, 7, 18, 24, 31, 6, 12) (17, 26, 19, 2$	(1,5,13,26,18,27,12,2,4,7,15,25,20,28,11,3)(6,17,30,	$30, 32, 21, 16, 24, 9, 8, 19, 29, 31, 22, 14, 23, 10) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ 30, 32, 21, 16, 24, 9, 8, 19, 29, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10$	$,9,29,14) (1,27,15,3,18,7,11,26,4,28,13,2,20,5,12,25) \\ (6,16,29,10,21,19,23,32,8,12,23,14,14,14,14,14,14,14,14,14,14,14,14,14,$	$,14,30,9,22,17,24,31) (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (6,9,23,16,22,32,29,17,8,10,24,14,21,31,30,19) (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,5,4,3,12,28,18,25,13,7) \\ (1,2,11,27,20,26,15,26,16,26,16,16,16,16,16,16,16,16,16,16,16,16,16$	(1,10)(2,6)(3,12)(4,8)(5,9)(7,11)	(1,2,4)(3,5,7)(6,8,10)(9,11,12)	(1,4,2)(3,7,5)(6,10,8)(9,12,11)	(1,9,10,5)(2,11,6,7)(3,4,12,8)	(1,5,10,9)(2,7,6,11)(3,8,12,4)	(1,6,4,10,2,8)(3,9,7,12,5,11,10,10,10,10,10,10,10,10,10,10,10,10,	(1,8,2,10,4,6)(3,11,5,12,7,9)	(1, 3, 6, 9, 4, 7, 10, 12, 2, 5, 8, 11)	(1, 7, 8, 9, 2, 3, 10, 11, 4, 5, 6, 12)	(1, 12, 6, 5, 4, 11, 10, 3, 2, 9, 8, 7)	(1, 11, 8, 5, 2, 12, 10, 7, 4, 9, 6, 3)
7	1	3	1 1	1	1	1	1	$1 - E(8) + E(8)^{}$	$1 + E(8) - E(8)^3$	$1 + E(8) - E(8)^3$	$1 - E(8) + E(8)^3$	0	0	0	0	0	0	0	0	0	0	0
7	1	3	-1 1	1	1	-1	-1	-1 + E(8) - E(8)	$-1 - E(8) + E(8)^3$	$-1 - E(8) + E(8)^3$	$-1 + E(8) - E(8)^3$	0	0	0	0	0	0	0	0	0	0	0
-14	-1	0	0 1	$E(8) - E(8)^{} 3$	$-E(8) + E(8)^{} 3$	$-E(12)^{}7 + E(12)^{}11$	$E(12)^{} 7 - E(12)^{} 11$	$-E(16)^3 + E(16)$	$E(16) - E(16)^{} 7$	$-E(16) + E(16)^{} 7$	$E(16)^3 - E(16)^5$	0	0	0	0	0	0	0	0	0	0	0
-14	-1	0	0 1	$E(8) - E(8)^{} 3$	$-E(8) + E(8)^{} 3$	$E(12)^{} 7 - E(12)^{} 11$	$-E(12)^{}7 + E(12)^{}11$	$E(16)^{} 3 - E(16)^{}$	$-E(16) + E(16)^{} 7$	$E(16) - E(16)^{} 7$	$-E(16)^3 + E(16)^5$	0	0	0	0	0	0	0	0	0	0	0
14	-1	-2	-2 -1	2	2	1	1	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0
14	-1	-2	2 -1	2	2	-1	-1	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0
1)(1)($\begin{array}{c} (2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32) & (1,12)(23,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32) & (1,12)(23,24)(25,26)(27,28)(29,30)(27,28)(29,2$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32)}{2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32)} (1,12,10)(4,11,9)(5,24,22)(6,28,26)(7,23,21)(8,27,25)(13,32,19)(15,31,17) (1,18,4,20)(2,25,3,26)(5,27,7,28)(6,21,8,22)(9,31,10,32)(11,13,12,15)(14,17,16,19)(23,30,24,29) (1,2,4,3)(5,9,7,10)(6,11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32) (1,12,10)(4,11,9)(5,24,22)(6,28,26)(7,23,21)(8,27,25)(13,32,19)(15,31,17) (1,18,4,20)(2,25,3,26)(5,27,7,28)(6,21,8,22)(9,31,10,32)(11,13,12,15)(14,17,16,19)(23,30,24,29) (1,2,4,3)(5,9,7,10)(6,11,12)(14,17,16,19)(13,12,15)(14,17,16,19)(14,12,15)(14,17,16,19)(14,12,$	$\frac{2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32)}{2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32)} \\ \frac{2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32)}{2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32)} \\ \frac{7}{1} \\ 17 \\ 17 \\ 17 \\ 17 \\ 17 \\ 17 \\ 17 \\ $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{1}{2} (3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,10)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(28,30)(31,32)}{2} (1,12,10)(4,11,9)(5,24,22)(6,28,30)(31,32)} (1,12,10)(4,11,9)(1,23,10,13,11)} (1,12,30)(1,12,11,13,11)(1,11,13,11)(1,11,13,11)(1,11,13,11,13,11)(1,11,13,$	$\frac{7}{7} \\ \frac{7}{7} \\ \frac{1}{7} \\ \frac{1}{1} \\ \frac{1}{7} \\ \frac{1}{1} \\ \frac{1}$	$\frac{7}{5}$ (2) (5) (5) (6) (1) (1) (1) (3) (5) (14 (16) (7, 19) (8, 20) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	$\frac{7}{2} \\ 2 \\ 2 \\ 3 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5$	$\frac{F}{F} = \frac{F}{F} = \frac{F}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{1}{1} + \frac{1}{1} + \frac{1}$	$\frac{1}{1} + \frac{1}{1} + \frac{1}$								