

Graceful labelings of the generalized Petersen graphs

graph	labeling
$P(11, 2)$	3,30,2,31,1,32,0,33,7,29,4,27,19,6,21,24,12,5,20,22,13,16
$P(11, 3)$	6,29,15,31,1,32,0,28,2,27,5,25,22,23,4,13,12,33,18,8,9,20
$P(12, 2)$	7,34,16,4,18,9,22,2,33,1,35,0,31,8,12,14,29,17,6,32,11, 3, 10, 36
$P(12, 3)$	7,33,15,5,16,10,3,34,1,35,0,29,28,8,13,9,31,18,23,4,17, 11, 36, 26
$P(12, 4)$	3, 7, 33, 4, 24, 14, 2, 34, 1, 35, 0, 28, 10, 31, 6, 25, 8, 20, 5, 16, 23, 12, 36, 11
$P(12, 5)$	8, 35, 0, 34, 1, 33, 2, 32, 15, 21, 16, 20, 31, 13, 36, 14, 19, 5, 23, 7, 6, 22, 3, 4
$P(12, 6)$	10, 11, 23, 6, 25, 3, 27, 2, 28, 1, 29, 0, 21, 19, 17, 24, 4, 7, 12, 16, 15, 8, 9, 30
$P(13, 2)$	5, 34, 4, 35, 3, 36, 2, 37, 1, 38, 0, 39, 11, 32, 24, 6, 16, 28, 33, 7, 22, 25, 15, 9, 19, 23
$P(13, 3)$	36, 2, 37, 1, 38, 0, 39, 6, 35, 3, 34, 4, 8, 9, 11, 13, 27, 18, 19, 14, 28, 20, 26, 17, 25, 10
$P(13, 4)$	6, 34, 23, 30, 11, 2, 37, 1, 38, 0, 33, 3, 35, 8, 9, 31, 16, 32, 5, 15, 28, 12, 39, 10, 13, 29
$P(13, 5)$	32, 0, 38, 1, 37, 2, 36, 18, 21, 9, 25, 34, 3, 8, 39, 23, 29, 14, 28, 6, 10, 4, 20, 30, 7, 24
$P(14, 2)$	3, 39, 2, 40, 1, 41, 0, 42, 7, 38, 4, 37, 5, 33, 32, 25, 6, 27, 28, 16, 8, 23, 31, 35, 10, 19, 15, 34
$P(14, 3)$	3, 39, 2, 40, 1, 41, 0, 42, 7, 38, 4, 37, 5, 33, 32, 18, 8, 13, 16, 25, 26, 20, 30, 14, 11, 12, 15, 19
$P(14, 4)$	3, 39, 2, 40, 1, 41, 0, 42, 7, 38, 4, 37, 5, 33, 32, 23, 9, 21, 6, 20, 27, 29, 31, 18, 10, 14, 19, 22
$P(14, 6)$	3, 39, 2, 40, 1, 41, 0, 42, 7, 38, 4, 37, 5, 33, 32, 17, 29, 31, 26, 22, 6, 28, 8, 15, 9, 19, 13, 18
$P(14, 7)$	24, 3, 32, 2, 33, 1, 34, 0, 28, 4, 31, 5, 30, 7, 13, 17, 12, 6, 14, 10, 16, 35, 18, 20, 19, 8, 15, 9
$P(15, 2)$	36, 8, 20, 31, 18, 26, 6, 24, 2, 42, 1, 44, 0, 37, 4, 5, 43, 30, 16, 39, 40, 22, 17, 41, 13, 3, 14, 45, 11, 9
$P(15, 3)$	36, 8, 22, 19, 38, 18, 5, 41, 3, 43, 1, 44, 0, 37, 6, 12, 35, 21, 7, 13, 28, 39, 15, 20, 4, 30, 26, 45, 14, 17
$P(15, 4)$	9, 42, 26, 22, 27, 15, 33, 41, 2, 43, 1, 44, 0, 38, 3, 40, 8, 6, 39, 4, 34, 20, 14, 5, 19, 31, 12, 45, 28, 10
$P(15, 5)$	34, 8, 41, 4, 39, 15, 17, 42, 2, 43, 1, 44, 0, 32, 3, 19, 38, 7, 27, 28, 5, 11, 6, 20, 24, 22, 16, 45, 40, 12
$P(15, 6)$	10, 31, 23, 36, 12, 38, 3, 42, 2, 43, 1, 44, 0, 37, 4, 41, 30, 32, 9, 40, 22, 7, 20, 14, 11, 15, 39, 45, 17, 33
$P(16, 2)$	9, 1, 47, 0, 44, 2, 43, 8, 38, 11, 35, 14, 33, 4, 19, 45, 46, 3, 7, 48, 6, 5, 10, 39, 15, 17, 28, 42, 16, 22, 30, 13
$P(16, 3)$	40, 1, 47, 0, 45, 2, 46, 19, 33, 13, 21, 34, 28, 5, 41, 3, 7, 36, 18, 48, 14, 30, 6, 4, 9, 15, 20, 16, 32, 39, 11, 29
$P(16, 4)$	38, 1, 47, 0, 45, 2, 46, 4, 31, 12, 40, 9, 23, 6, 17, 5, 15, 41, 8, 48, 11, 3, 10, 7, 26, 28, 16, 39, 33, 19, 37, 13
$P(16, 5)$	30, 1, 47, 0, 45, 2, 46, 4, 44, 28, 33, 15, 36, 12, 21, 20, 5, 40, 11, 48, 43, 25, 8, 39, 7, 32, 18, 27, 6, 38, 35, 26
$P(16, 6)$	36, 1, 47, 0, 45, 2, 46, 4, 44, 3, 7, 32, 23, 35, 11, 26, 6, 39, 10, 48, 17, 20, 14, 5, 13, 9, 33, 18, 43, 12, 30, 31
$P(16, 7)$	30, 1, 47, 0, 45, 2, 46, 4, 44, 3, 42, 9, 21, 32, 13, 14, 6, 38, 12, 48, 18, 17, 20, 27, 8, 37, 10, 5, 39, 15, 7, 22
$P(16, 8)$	26, 1, 39, 0, 37, 2, 38, 4, 36, 3, 34, 5, 20, 11, 23, 7, 15, 29, 12, 40, 13, 24, 17, 22, 16, 6, 8, 10, 30, 18, 31, 9
$P(17, 2)$	0, 40, 6, 44, 17, 26, 8, 20, 37, 22, 25, 4, 45, 2, 48, 1, 50, 51, 7, 12, 14, 43, 46, 27, 10, 13, 33, 38, 5, 16, 47, 11, 3, 15
$P(17, 3)$	0, 39, 2, 40, 23, 12, 31, 38, 18, 27, 48, 5, 47, 3, 49, 1, 50, 51, 6, 34, 15, 24, 7, 25, 46, 21, 29, 20, 45, 13, 32, 4, 36, 19
$P(17, 4)$	0, 39, 6, 44, 7, 37, 16, 29, 28, 4, 46, 3, 47, 2, 49, 1, 50, 51, 8, 13, 22, 15, 10, 41, 40, 9, 45, 12, 23, 24, 5, 17, 27, 34
$P(17, 5)$	0, 41, 3, 40, 5, 39, 44, 34, 46, 7, 47, 4, 48, 2, 49, 1, 50, 51, 16, 11, 10, 9, 15, 38, 37, 17, 24, 14, 20, 6, 30, 22, 33, 29
$P(17, 7)$	0, 42, 4, 45, 15, 30, 19, 41, 22, 24, 47, 3, 48, 2, 49, 1, 50, 51, 6, 37, 5, 9, 35, 12, 25, 23, 16, 8, 38, 17, 39, 21, 10, 26
$P(18, 2)$	0, 42, 6, 46, 16, 43, 25, 38, 24, 44, 28, 47, 4, 48, 2, 51, 1, 53, 54, 7, 13, 12, 45, 37, 8, 14, 39, 40, 17, 19, 5, 9, 50, 18, 3, 15

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graph	labeling
$P(18, 3)$	0, 41, 2, 42, 34, 17, 36, 24, 8, 7, 9, 51, 5, 50, 3, 52, 1, 53, 54, 6, 35, 16, 27, 13, 39, 18, 28, 21, 43, 23, 48, 14, 33, 4, 38, 22
$P(18, 4)$	0, 42, 6, 47, 7, 18, 37, 13, 35, 22, 4, 49, 3, 50, 2, 52, 1, 53, 54, 8, 41, 17, 15, 28, 16, 40, 19, 23, 48, 12, 36, 38, 5, 14, 10, 24
$P(18, 5)$	0, 39, 3, 41, 38, 14, 22, 15, 5, 49, 7, 50, 4, 51, 2, 52, 1, 53, 54, 18, 34, 9, 42, 25, 44, 29, 46, 26, 37, 16, 23, 6, 27, 19, 36, 40
$P(18, 6)$	0, 11, 44, 6, 49, 10, 50, 9, 31, 25, 4, 48, 3, 51, 2, 52, 1, 53, 54, 47, 15, 26, 18, 28, 8, 12, 5, 13, 41, 20, 7, 17, 29, 45, 16, 37
$P(18, 7)$	0, 44, 4, 47, 6, 34, 26, 35, 31, 30, 5, 50, 3, 51, 2, 52, 1, 53, 54, 9, 37, 28, 45, 12, 21, 41, 43, 13, 25, 8, 39, 19, 18, 14, 27, 32
$P(18, 8)$	0, 44, 5, 48, 8, 15, 36, 25, 41, 22, 4, 50, 3, 51, 2, 52, 1, 53, 54, 12, 47, 18, 43, 46, 27, 49, 28, 32, 9, 14, 6, 17, 10, 24, 13, 26
$P(18, 9)$	0, 34, 5, 38, 6, 37, 9, 36, 14, 40, 4, 41, 3, 42, 2, 43, 1, 44, 45, 25, 30, 20, 29, 35, 28, 22, 31, 10, 24, 17, 13, 26, 23, 32, 16, 39
$P(19, 2)$	8, 49, 7, 50, 6, 51, 5, 52, 4, 53, 3, 54, 2, 55, 1, 56, 0, 57, 17, 47, 39, 9, 23, 43, 45, 10, 21, 40, 34, 11, 31, 37, 48, 12, 44, 32, 29, 18
$P(19, 3)$	8, 49, 7, 50, 6, 51, 5, 52, 4, 53, 3, 54, 2, 55, 1, 56, 0, 57, 17, 47, 37, 35, 12, 33, 30, 42, 20, 29, 19, 9, 32, 38, 26, 25, 23, 16, 39, 43
$P(19, 4)$	8, 49, 7, 50, 6, 51, 5, 52, 4, 53, 3, 54, 2, 55, 1, 56, 0, 57, 17, 47, 36, 24, 16, 9, 26, 29, 23, 41, 37, 31, 19, 10, 22, 13, 20, 30, 43, 39
$P(19, 6)$	8, 49, 7, 50, 6, 51, 5, 52, 4, 53, 3, 54, 2, 55, 1, 56, 0, 57, 17, 47, 16, 34, 32, 14, 28, 9, 18, 10, 37, 35, 43, 39, 19, 36, 27, 13, 26, 42
$P(19, 7)$	8, 49, 7, 50, 6, 51, 5, 52, 4, 53, 3, 54, 2, 55, 1, 56, 0, 57, 17, 47, 45, 9, 21, 12, 15, 31, 14, 22, 19, 28, 24, 10, 34, 36, 37, 32, 29, 48
$P(19, 8)$	8, 49, 7, 50, 6, 51, 5, 52, 4, 53, 3, 54, 2, 55, 1, 56, 0, 57, 17, 47, 32, 14, 15, 26, 19, 11, 21, 9, 20, 13, 18, 28, 27, 38, 45, 34, 41, 35
$P(20, 2)$	23, 48, 19, 10, 43, 1, 59, 0, 56, 2, 55, 4, 52, 6, 58, 13, 36, 53, 31, 50, 11, 9, 39, 46, 8, 3, 18, 60, 22, 5, 15, 54, 20, 7, 28, 51, 49, 35, 25, 24
$P(20, 3)$	16, 31, 22, 14, 58, 1, 59, 0, 55, 2, 54, 5, 53, 3, 49, 6, 48, 18, 44, 21, 29, 43, 28, 51, 4, 25, 23, 60, 26, 37, 9, 7, 19, 50, 24, 39, 10, 8, 12, 17
$P(20, 4)$	21, 11, 42, 2, 58, 1, 59, 0, 54, 3, 56, 4, 53, 6, 52, 7, 30, 46, 14, 57, 50, 38, 8, 5, 25, 12, 20, 60, 45, 27, 18, 10, 32, 34, 17, 51, 13, 16, 22, 9
$P(20, 5)$	46, 8, 37, 36, 16, 25, 57, 2, 58, 1, 59, 0, 53, 3, 55, 7, 56, 11, 51, 9, 5, 52, 10, 32, 40, 38, 6, 33, 30, 22, 24, 60, 23, 14, 47, 41, 13, 4, 29, 35
$P(20, 6)$	21, 23, 38, 16, 35, 3, 57, 2, 58, 1, 59, 0, 52, 4, 55, 5, 54, 8, 53, 9, 47, 6, 20, 46, 12, 7, 33, 44, 19, 11, 32, 60, 41, 10, 26, 42, 29, 13, 25, 50
$P(20, 8)$	25, 42, 44, 4, 56, 3, 57, 2, 58, 1, 59, 0, 50, 5, 54, 6, 21, 40, 13, 55, 41, 8, 7, 9, 24, 15, 22, 10, 27, 30, 20, 60, 17, 33, 16, 53, 47, 51, 23, 14
$P(20, 9)$	1, 15, 55, 4, 56, 3, 57, 2, 58, 1, 59, 0, 49, 5, 36, 20, 34, 33, 30, 42, 13, 52, 10, 45, 14, 35, 40, 29, 48, 47, 24, 60, 19, 53, 16, 25, 11, 27, 22, 46
$P(20, 10)$	48, 1, 49, 0, 50, 4, 47, 2, 46, 5, 45, 3, 42, 6, 44, 7, 41, 8, 43, 16, 17, 13, 20, 11, 24, 12, 23, 18, 29, 27, 15, 10, 14, 26, 19, 21, 22, 31, 25, 37
$P(21, 2)$	9, 1, 62, 0, 59, 2, 58, 8, 51, 12, 54, 14, 41, 23, 40, 56, 35, 22, 57, 11, 60, 61, 3, 7, 63, 6, 5, 10, 49, 17, 21, 28, 33, 4, 53, 18, 20, 50, 45, 19, 16, 13
$P(21, 3)$	55, 1, 62, 0, 60, 2, 61, 27, 10, 4, 20, 32, 30, 41, 48, 58, 8, 51, 5, 56, 3, 7, 45, 24, 63, 18, 39, 6, 9, 11, 36, 42, 35, 17, 21, 40, 13, 47, 15, 54, 16, 38
$P(21, 4)$	53, 1, 62, 0, 60, 2, 61, 4, 50, 14, 52, 28, 58, 31, 57, 45, 20, 43, 9, 54, 5, 6, 56, 8, 63, 16, 3, 10, 7, 11, 46, 17, 47, 25, 59, 26, 27, 42, 22, 15, 12, 13
$P(21, 5)$	54, 11, 52, 33, 37, 36, 27, 60, 2, 61, 1, 62, 0, 56, 3, 58, 7, 59, 10, 57, 9, 22, 55, 12, 17, 42, 51, 20, 6, 38, 31, 29, 28, 63, 18, 5, 46, 4, 13, 49, 30, 32
$P(21, 6)$	10, 18, 40, 24, 33, 45, 3, 60, 2, 61, 1, 62, 0, 55, 4, 58, 5, 57, 8, 56, 9, 53, 36, 15, 54, 6, 11, 7, 29, 38, 16, 34, 22, 63, 49, 17, 14, 19, 25, 13, 30, 46
$P(21, 7)$	38, 45, 58, 27, 13, 59, 3, 60, 2, 61, 1, 62, 0, 53, 4, 56, 6, 54, 7, 52, 10, 5, 16, 34, 49, 57, 8, 42, 23, 28, 29, 26, 21, 63, 15, 39, 37, 14, 43, 17, 9, 12
$P(21, 8)$	34, 51, 18, 44, 4, 59, 3, 60, 2, 61, 1, 62, 0, 53, 5, 57, 6, 56, 10, 55, 11, 42, 38, 47, 8, 9, 40, 37, 19, 12, 14, 29, 23, 63, 28, 16, 15, 43, 7, 13, 17, 20
$P(21, 9)$	29, 24, 17, 58, 4, 59, 3, 60, 2, 61, 1, 62, 0, 52, 5, 56, 21, 8, 37, 12, 35, 14, 46, 57, 10, 40, 22, 49, 26, 13, 16, 28, 18, 63, 20, 19, 6, 9, 41, 7, 36, 34
$P(22, 2)$	16, 52, 21, 29, 15, 63, 1, 65, 0, 61, 2, 60, 4, 58, 7, 64, 12, 37, 8, 30, 62, 44, 55, 22, 9, 5, 53, 20, 3, 25, 66, 19, 6, 26, 59, 17, 10, 27, 57, 14, 24, 49, 35, 23

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Table 1 – continued from previous page

graph	labeling
$P(22, 3)$	23, 39, 24, 50, 26, 64, 1, 65, 0, 61, 2, 60, 5, 59, 3, 55, 6, 54, 11, 53, 8, 27, 45, 12, 44, 40, 62, 4, 29, 30, 66, 31, 36, 9, 14, 28, 56, 32, 7, 10, 18, 20, 49, 15
$P(22, 4)$	14, 44, 9, 43, 2, 64, 1, 65, 0, 60, 3, 62, 4, 59, 6, 58, 7, 61, 12, 56, 8, 40, 51, 19, 17, 52, 5, 36, 46, 34, 66, 55, 13, 23, 10, 32, 49, 37, 57, 48, 11, 41, 15, 28
$P(22, 5)$	40, 4, 23, 63, 2, 64, 1, 65, 0, 59, 3, 61, 7, 62, 10, 60, 9, 57, 11, 18, 22, 5, 24, 14, 51, 6, 41, 32, 44, 42, 66, 21, 37, 19, 28, 13, 47, 38, 50, 30, 58, 36, 35, 17
$P(22, 6)$	20, 54, 3, 63, 2, 64, 1, 65, 0, 58, 4, 61, 5, 60, 8, 29, 12, 35, 62, 37, 27, 57, 53, 6, 7, 16, 46, 22, 33, 15, 66, 9, 10, 30, 45, 14, 13, 48, 38, 17, 21, 59, 11, 19
$P(22, 7)$	16, 62, 3, 63, 2, 64, 1, 65, 0, 57, 4, 60, 5, 56, 6, 58, 19, 9, 34, 10, 30, 11, 61, 8, 43, 36, 40, 48, 35, 18, 66, 20, 33, 25, 31, 23, 54, 17, 50, 15, 27, 32, 44, 22
$P(22, 8)$	15, 62, 3, 63, 2, 64, 1, 65, 0, 58, 4, 61, 5, 60, 7, 59, 8, 32, 27, 54, 17, 46, 18, 55, 52, 20, 47, 48, 10, 44, 66, 30, 6, 19, 9, 34, 51, 25, 16, 43, 12, 36, 49, 24
$P(22, 9)$	17, 62, 3, 63, 2, 64, 1, 65, 0, 58, 4, 61, 5, 60, 7, 59, 8, 57, 24, 14, 19, 46, 56, 31, 45, 44, 50, 29, 39, 54, 66, 12, 10, 21, 35, 13, 6, 23, 40, 16, 9, 22, 47, 48
$P(22, 10)$	19, 62, 3, 63, 2, 64, 1, 65, 0, 58, 4, 61, 5, 60, 7, 59, 8, 57, 9, 36, 56, 42, 55, 38, 49, 34, 47, 30, 48, 44, 66, 40, 15, 51, 11, 29, 10, 26, 6, 45, 16, 14, 31, 23
$P(22, 11)$	41, 51, 3, 52, 2, 53, 1, 54, 0, 47, 4, 50, 5, 49, 7, 48, 8, 46, 9, 45, 39, 32, 42, 17, 36, 20, 23, 25, 13, 27, 55, 21, 29, 26, 40, 18, 37, 34, 6, 33, 12, 16, 43, 24
$P(23, 2)$	34, 51, 33, 53, 29, 7, 41, 2, 66, 1, 68, 0, 61, 4, 63, 5, 59, 6, 62, 13, 57, 11, 20, 64, 16, 12, 56, 55, 23, 18, 65, 28, 3, 36, 69, 25, 9, 32, 60, 31, 10, 43, 58, 30, 17, 45
$P(23, 3)$	18, 44, 50, 39, 54, 30, 65, 3, 67, 1, 68, 0, 61, 2, 62, 5, 60, 6, 58, 8, 64, 17, 63, 57, 40, 21, 14, 26, 37, 24, 25, 4, 41, 34, 69, 23, 7, 11, 42, 28, 59, 22, 31, 15, 9, 33
$P(23, 4)$	11, 45, 18, 38, 20, 39, 25, 2, 67, 1, 68, 0, 63, 3, 65, 4, 62, 6, 61, 7, 64, 12, 59, 9, 15, 43, 54, 51, 52, 58, 5, 27, 40, 23, 69, 34, 14, 22, 10, 24, 42, 17, 60, 32, 21, 13
$P(23, 5)$	34, 31, 21, 49, 14, 28, 66, 2, 67, 1, 68, 0, 62, 3, 64, 7, 65, 10, 63, 9, 60, 11, 58, 54, 52, 55, 20, 12, 37, 6, 39, 25, 44, 41, 69, 26, 43, 19, 15, 13, 4, 24, 8, 48, 61, 27
$P(23, 7)$	9, 57, 34, 19, 48, 52, 27, 65, 3, 66, 2, 67, 1, 68, 0, 60, 4, 63, 5, 59, 6, 61, 10, 58, 12, 7, 30, 16, 47, 13, 8, 46, 20, 42, 32, 23, 31, 69, 18, 11, 22, 26, 56, 14, 17, 49
$P(23, 9)$	57, 30, 35, 59, 23, 64, 4, 65, 3, 66, 2, 67, 1, 68, 0, 58, 5, 62, 6, 61, 11, 60, 12, 22, 47, 48, 27, 7, 10, 16, 55, 42, 20, 53, 34, 38, 28, 69, 39, 33, 24, 49, 9, 41, 29, 8
$P(23, 10)$	30, 14, 38, 19, 5, 64, 4, 65, 3, 66, 2, 67, 1, 68, 0, 57, 6, 62, 8, 60, 10, 18, 51, 61, 44, 16, 63, 11, 27, 47, 12, 42, 25, 13, 35, 36, 23, 69, 29, 21, 7, 15, 24, 59, 52, 54
$P(24, 2)$	14, 17, 59, 52, 31, 58, 41, 22, 8, 43, 4, 66, 2, 69, 1, 71, 0, 61, 6, 65, 7, 63, 9, 62, 60, 46, 10, 26, 55, 35, 11, 47, 48, 15, 5, 25, 68, 33, 3, 38, 72, 23, 12, 34, 64, 50, 13, 28
$P(24, 3)$	62, 13, 58, 32, 12, 23, 51, 41, 46, 30, 67, 9, 69, 5, 68, 3, 70, 1, 71, 0, 59, 6, 61, 11, 14, 65, 44, 2, 25, 38, 29, 49, 47, 64, 10, 16, 28, 66, 35, 45, 4, 33, 27, 72, 36, 52, 18, 15
$P(24, 4)$	32, 26, 55, 8, 39, 56, 23, 63, 12, 62, 14, 4, 67, 3, 68, 2, 70, 1, 71, 0, 60, 6, 65, 7, 48, 52, 9, 64, 69, 29, 51, 11, 50, 30, 10, 66, 28, 16, 25, 5, 33, 36, 27, 72, 24, 18, 20, 15
$P(24, 5)$	61, 23, 60, 36, 35, 44, 30, 33, 40, 5, 67, 7, 68, 4, 69, 2, 70, 1, 71, 0, 57, 3, 59, 8, 17, 56, 32, 28, 12, 62, 24, 37, 13, 64, 20, 41, 49, 52, 6, 45, 39, 27, 22, 72, 16, 19, 38, 58
$P(24, 6)$	0, 72, 1, 71, 2, 70, 3, 69, 4, 68, 5, 67, 6, 66, 7, 65, 8, 64, 9, 63, 10, 62, 11, 50, 49, 38, 18, 53, 48, 45, 12, 25, 47, 23, 15, 46, 54, 39, 19, 43, 55, 41, 13, 31, 21, 27, 17, 26
$P(24, 7)$	0, 72, 1, 71, 2, 70, 3, 69, 4, 68, 5, 67, 6, 66, 7, 65, 8, 64, 9, 63, 10, 62, 11, 50, 49, 34, 22, 26, 46, 35, 43, 21, 17, 32, 48, 38, 20, 25, 54, 28, 33, 18, 15, 29, 52, 30, 31, 45
$P(24, 8)$	2, 70, 1, 71, 0, 72, 5, 69, 3, 68, 6, 67, 4, 64, 7, 66, 8, 63, 9, 65, 12, 62, 10, 53, 51, 55, 36, 23, 22, 52, 50, 45, 11, 27, 15, 20, 35, 34, 14, 39, 13, 38, 48, 19, 54, 18, 24, 16
$P(24, 9)$	47, 2, 70, 1, 71, 0, 67, 3, 69, 4, 66, 5, 68, 8, 65, 36, 24, 33, 40, 25, 9, 11, 41, 6, 43, 60, 15, 52, 22, 72, 44, 42, 27, 32, 10, 59, 20, 55, 13, 57, 23, 7, 35, 56, 19, 38, 17, 49
$P(24, 10)$	52, 2, 70, 1, 71, 0, 67, 3, 69, 4, 66, 5, 68, 8, 65, 6, 33, 10, 44, 59, 28, 57, 24, 13, 11, 58, 15, 55, 18, 72, 37, 22, 31, 20, 17, 7, 16, 12, 23, 14, 61, 35, 9, 27, 54, 43, 34, 60
$P(24, 11)$	48, 2, 70, 1, 71, 0, 67, 3, 69, 4, 66, 5, 68, 8, 65, 6, 64, 27, 30, 39, 44, 23, 12, 19, 14, 55, 18, 56, 21, 72, 26, 31, 33, 22, 35, 47, 17, 57, 11, 53, 16, 7, 46, 9, 32, 10, 20, 13
$P(24, 12)$	38, 2, 58, 1, 59, 0, 55, 3, 57, 4, 54, 5, 56, 8, 53, 6, 52, 9, 28, 39, 31, 19, 33, 10, 14, 44, 17, 40, 21, 60, 20, 36, 25, 35, 24, 32, 30, 7, 13, 11, 18, 16, 45, 26, 46, 41, 15, 12
$P(25, 2)$	14, 41, 29, 44, 19, 11, 51, 17, 22, 25, 46, 4, 69, 2, 72, 1, 74, 0, 64, 6, 68, 7, 66, 9, 65, 63, 58, 10, 26, 62, 52, 15, 8, 61, 53, 23, 5, 34, 71, 50, 3, 60, 75, 31, 12, 55, 67, 35, 13, 28
$P(25, 3)$	11, 59, 56, 28, 40, 34, 41, 36, 22, 37, 72, 5, 71, 3, 73, 1, 74, 0, 63, 2, 64, 6, 65, 8, 61, 67, 7, 58, 27, 48, 68, 60, 9, 31, 24, 30, 69, 42, 46, 4, 12, 29, 75, 32, 53, 15, 10, 21, 62, 35
$P(25, 4)$	13, 62, 33, 48, 21, 59, 27, 52, 24, 4, 70, 3, 71, 2, 73, 1, 74, 0, 63, 6, 68, 7, 66, 8, 64, 67, 9, 19, 61, 23, 14, 53, 31, 65, 69, 22, 20, 28, 5, 26, 36, 34, 75, 17, 18, 44, 15, 16, 41, 25

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graph	labeling
$P(25, 5)$	63, 20, 19, 61, 13, 64, 12, 48, 25, 43, 5, 70, 7, 71, 4, 72, 2, 73, 1, 74, 0, 60, 3, 62, 8, 17, 31, 41, 14, 54, 11, 33, 24, 59, 23, 67, 42, 39, 22, 9, 6, 32, 65, 51, 34, 75, 44, 38, 18, 15
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$P(31, 3)$	19, 71, 12, 91, 1, 92, 0, 88, 2, 87, 5, 86, 3, 70, 23, 69, 24, 67, 29, 66, 33, 64, 38, 59, 48, 52, 45, 46, 36, 22, 79, 81, 6, 85, 4, 72, 16, 93, 18, 77, 9, 73, 14, 83, 20, 65, 34, 68, 26, 7, 32, 8, 35, 15, 40, 43, 39, 42, 37, 51, 62, 21
$P(31, 4)$	2, 91, 1, 92, 0, 93, 5, 90, 3, 89, 6, 88, 4, 85, 7, 87, 8, 84, 9, 86, 12, 83, 10, 82, 13, 81, 11, 78, 14, 80, 15, 65, 54, 27, 48, 16, 53, 55, 39, 64, 74, 24, 41, 18, 50, 46, 33, 70, 77, 21, 29, 17, 45, 51, 23, 73, 26, 22, 20, 31, 60, 58
$P(31, 5)$	10, 83, 9, 84, 8, 85, 7, 86, 6, 87, 5, 88, 4, 89, 3, 90, 2, 91, 1, 92, 0, 93, 21, 82, 11, 81, 12, 80, 13, 79, 14, 74, 32, 18, 62, 43, 22, 60, 39, 24, 53, 67, 33, 52, 64, 46, 30, 56, 41, 47, 77, 59, 37, 15, 49, 35, 23, 17, 31, 57, 65, 55
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$P(31, 12)$	0, 75, 9, 83, 10, 82, 11, 81, 28, 24, 64, 39, 68, 30, 72, 8, 84, 7, 85, 6, 87, 5, 88, 4, 89, 3, 90, 2, 91, 1, 92, 93, 14, 74, 21, 19, 55, 46, 12, 69, 76, 27, 78, 49, 60, 17, 71, 37, 23, 61, 13, 20, 16, 29, 52, 77, 26, 22, 15, 40, 44, 47
$P(31, 13)$	87, 5, 88, 4, 89, 3, 90, 2, 91, 1, 92, 0, 93, 12, 86, 6, 85, 7, 84, 8, 83, 10, 82, 11, 81, 13, 80, 14, 79, 15, 18, 24, 43, 40, 17, 52, 63, 71, 47, 34, 37, 33, 35, 49, 74, 69, 61, 32, 25, 23, 51, 36, 66, 68, 9, 42, 19, 22, 60, 28, 57, 59
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$P(32, 8)$	12, 13, 83, 19, 91, 16, 85, 11, 84, 24, 21, 63, 8, 87, 7, 88, 6, 89, 5, 90, 4, 92, 3, 93, 2, 94, 1, 95, 0, 68, 10, 77, 53, 76, 35, 50, 20, 62, 29, 49, 33, 17, 75, 18, 86, 44, 64, 79, 58, 28, 22, 40, 9, 78, 15, 69, 25, 32, 37, 66, 96, 41, 23, 30
$P(32, 9)$	61, 24, 86, 20, 83, 14, 82, 17, 46, 39, 42, 21, 53, 12, 87, 11, 88, 9, 89, 7, 90, 6, 91, 4, 92, 3, 93, 2, 94, 1, 95, 0, 50, 81, 38, 66, 13, 18, 26, 71, 60, 41, 58, 8, 47, 84, 40, 70, 36, 48, 16, 15, 35, 5, 10, 55, 32, 56, 76, 80, 49, 59, 45, 96
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$P(32, 12)$	95, 0, 96, 2, 94, 1, 92, 3, 93, 5, 91, 4, 89, 6, 90, 8, 88, 7, 86, 9, 87, 11, 85, 10, 83, 12, 84, 14, 82, 13, 80, 29, 30, 27, 81, 60, 34, 17, 39, 16, 31, 28, 69, 61, 25, 51, 46, 18, 32, 43, 57, 64, 24, 58, 44, 21, 22, 50, 67, 68, 23, 47, 37, 15
$P(32, 13)$	83, 12, 84, 11, 85, 10, 86, 9, 87, 8, 88, 7, 89, 6, 90, 5, 91, 4, 92, 3, 93, 2, 94, 1, 95, 0, 96, 26, 82, 13, 81, 16, 17, 64, 38, 20, 49, 45, 24, 67, 33, 52, 41, 46, 29, 70, 35, 55, 43, 42, 51, 66, 36, 53, 60, 23, 50, 61, 37, 14, 39, 40, 56, 27
$P(32, 14)$	48, 36, 61, 79, 52, 71, 58, 19, 64, 7, 89, 6, 90, 5, 91, 4, 92, 3, 93, 2, 94, 1, 95, 0, 80, 8, 87, 9, 84, 11, 85, 16, 83, 13, 39, 82, 23, 29, 37, 75, 21, 15, 34, 65, 40, 10, 43, 67, 54, 12, 57, 66, 70, 17, 51, 96, 20, 14, 41, 86, 32, 18, 44, 78
$P(32, 15)$	31, 26, 24, 49, 50, 44, 13, 35, 88, 7, 89, 6, 90, 5, 91, 4, 92, 3, 93, 2, 94, 1, 95, 0, 79, 8, 84, 9, 77, 10, 73, 11, 20, 47, 15, 46, 14, 52, 39, 18, 16, 58, 12, 61, 17, 51, 27, 43, 33, 55, 80, 56, 62, 57, 48, 96, 30, 86, 34, 78, 32, 75, 36, 71
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$P(33, 2)$	8, 84, 11, 83, 40, 16, 44, 70, 91, 50, 97, 58, 75, 42, 34, 15, 63, 9, 36, 13, 94, 7, 89, 6, 92, 4, 93, 2, 96, 1, 98, 0, 79, 22, 14, 85, 18, 27, 82, 73, 25, 55, 81, 77, 28, 43, 80, 78, 30, 38, 46, 87, 88, 32, 10, 21, 90, 33, 5, 26, 95, 35, 3, 29, 99, 19
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$P(33, 10)$	91, 7, 92, 6, 93, 5, 94, 4, 95, 3, 96, 2, 97, 1, 98, 0, 99, 16, 90, 8, 89, 9, 88, 10, 87, 11, 86, 13, 85, 14, 84, 15, 23, 24, 20, 54, 68, 43, 39, 35, 58, 76, 60, 30, 48, 81, 12, 53, 22, 38, 18, 41, 17, 25, 27, 49, 75, 67, 55, 26, 66, 70, 72, 32, 51, 19
$P(33, 11)$	99, 0, 98, 1, 97, 2, 96, 3, 95, 4, 94, 5, 93, 6, 92, 7, 91, 8, 90, 9, 89, 10, 88, 11, 87, 12, 86, 13, 85, 14, 84, 15, 31, 32, 17, 74, 65, 43, 30, 34, 25, 58, 64, 56, 71, 35, 47, 29, 62, 70, 69, 37, 53, 33, 24, 23, 68, 45, 16, 36, 60, 26, 48, 59, 18, 76
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$P(33, 14)$	71, 41, 75, 23, 65, 19, 7, 92, 6, 93, 5, 94, 4, 95, 3, 96, 2, 97, 1, 98, 0, 83, 8, 90, 9, 89, 12, 88, 14, 87, 17, 84, 18, 20, 28, 54, 72, 26, 73, 15, 67, 66, 60, 69, 16, 47, 38, 58, 31, 13, 50, 57, 37, 99, 35, 22, 61, 11, 10, 27, 29, 32, 24, 85, 74, 34
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$P(34, 4)$	86, 15, 87, 14, 88, 13, 89, 12, 90, 11, 91, 10, 92, 9, 93, 8, 94, 7, 95, 6, 96, 5, 97, 4, 98, 3, 99, 2, 100, 1, 101, 0, 102, 32, 17, 61, 26, 29, 20, 42, 46, 65, 24, 69, 34, 28, 25, 37, 44, 59, 30, 63, 33, 19, 36, 22, 49, 54, 43, 55, 40, 16, 35, 31, 38, 39, 60, 76
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$P(34, 11)$	49, 97, 4, 98, 3, 99, 2, 100, 1, 101, 0, 92, 5, 96, 6, 95, 7, 93, 8, 91, 9, 90, 32, 87, 27, 89, 38, 13, 40, 58, 43, 47, 34, 12, 10, 17, 82, 22, 77, 57, 70, 67, 51, 65, 102, 45, 84, 19, 81, 25, 50, 29, 37, 42, 33, 18, 11, 30, 88, 16, 78, 39, 26, 53, 44, 41, 46, 56
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$P(34, 13)$	88, 13, 89, 12, 90, 11, 91, 10, 92, 9, 93, 8, 94, 7, 95, 6, 96, 5, 97, 4, 98, 3, 99, 2, 100, 1, 101, 0, 102, 28, 87, 14, 86, 17, 18, 60, 35, 68, 72, 74, 51, 19, 26, 30, 43, 66, 52, 75, 64, 57, 34, 37, 33, 41, 49, 70, 54, 55, 39, 47, 36, 48, 42, 15, 44, 69, 58, 50
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$P(35, 14)$	27, 98, 6, 99, 5, 100, 4, 101, 3, 102, 2, 103, 1, 104, 0, 91, 7, 97, 8, 96, 9, 95, 10, 93, 11, 92, 12, 90, 13, 22, 64, 35, 72, 42, 94, 31, 28, 30, 79, 67, 74, 70, 25, 17, 49, 24, 44, 39, 41, 105, 18, 65, 47, 23, 53, 15, 20, 82, 46, 51, 36, 57, 29, 26, 86, 16, 81, 21, 78, 34
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$P(36, 4)$	97, 10, 98, 9, 99, 8, 100, 7, 101, 6, 102, 5, 103, 4, 104, 3, 105, 2, 106, 1, 107, 0, 108, 22, 96, 11, 95, 12, 94, 13, 93, 14, 92, 15, 91, 24, 25, 73, 84, 61, 28, 17, 42, 27, 26, 71, 79, 62, 33, 16, 57, 29, 37, 66, 44, 50, 38, 18, 80, 82, 30, 64, 51, 39, 35, 23, 76, 54, 41, 34, 46, 85
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$P(36, 18)$	13, 77, 12, 78, 11, 79, 10, 80, 9, 81, 8, 82, 7, 83, 6, 84, 5, 85, 4, 86, 3, 87, 2, 88, 1, 89, 0, 90, 27, 76, 14, 75, 15, 74, 16, 70, 69, 36, 67, 38, 64, 42, 61, 56, 59, 66, 55, 54, 53, 48, 51, 52, 47, 60, 17, 50, 19, 58, 20, 49, 18, 62, 21, 68, 22, 57, 23, 44, 25, 40, 24, 71
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$P(38, 9)$	0, 96, 5, 94, 8, 95, 13, 101, 16, 100, 37, 14, 30, 79, 35, 54, 49, 52, 69, 59, 12, 105, 11, 106, 9, 107, 7, 108, 6, 109, 4, 110, 3, 111, 2, 112, 1, 113, 114, 15, 82, 20, 68, 24, 40, 81, 38, 31, 76, 26, 92, 27, 90, 39, 56, 34, 63, 28, 102, 25, 86, 33, 18, 43, 36, 74, 42, 10, 83, 32, 73, 60, 67, 66, 46, 75
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$P(39, 5)$	20, 100, 21, 111, 58, 17, 19, 38, 64, 46, 30, 55, 59, 50, 107, 5, 112, 7, 113, 4, 114, 2, 115, 1, 116, 0, 101, 3, 103, 8, 105, 9, 102, 10, 104, 13, 98, 14, 97, 96, 11, 92, 81, 43, 34, 48, 60, 88, 95, 44, 106, 71, 94, 35, 109, 45, 28, 54, 77, 6, 68, 67, 57, 41, 117, 33, 36, 49, 86, 18, 79, 74, 15, 22, 99, 29, 61, 42
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