# Section 5.2

J=5 s1

(1)

q\_j------------ [19914, 11009, 10213, 11002, 17249]

w\_j------------ [12.6, 28.7, 31.0, 38.1, 39.4]

h\_j------------ [6.1, 8.2, 3.1, 4.6, 6.2]

e\_j------------ [61.6, 36.8, 67.2, 42.0, 74.0]

f\_j------------ [79.2, 106.3, 108.0, 115.4, 117.2]

(2)

q\_j------------ [14192, 14234, 16866, 15499, 16210]

w\_j------------ [10.8, 12.5, 30.3, 32.2, 39.6]

h\_j------------ [8.2, 4.0, 7.0, 7.9, 10.0]

e\_j------------ [55.6, 26.5, 22.5, 53.0, 57.3]

f\_j------------ [139.3, 141.9, 59.0, 67.1, 99.7]

(3)

q\_j------------ [16465, 16106, 10954, 14422, 14736]

w\_j------------ [21.1, 40.1, 42.2, 46.3, 47.5]

h\_j------------ [3.5, 3.5, 9.6, 8.2, 4.3]

e\_j------------ [46.8, 31.6, 45.6, 76.4, 51.1]

f\_j------------ [142.1, 79.5, 67.6, 74.3, 91.0]

(4)

q\_j------------ [11881, 14854, 15062, 19435, 13195]

w\_j------------ [12.0, 30.6, 36.7, 37.7, 39.6]

h\_j------------ [4.3, 9.1, 9.4, 4.3, 5.5]

e\_j------------ [48.9, 53.3, 33.4, 75.3, 30.8]

f\_j------------ [97.4, 65.1, 122.4, 131.0, 125.1]

（5）

q\_j------------ [13292, 10418, 10213, 11016, 10772]

w\_j------------ [15.4, 19.4, 42.1, 47.4, 47.9]

h\_j------------ [5.8, 6.1, 6.2, 6.6, 5.1]

e\_j------------ [28.6, 32.6, 59.4, 61.7, 58.9]

f\_j------------ [136.1, 131.1, 90.8, 75.2, 71.5]

J=5 s2

（1）

q\_j------------ [14080, 12637, 16398, 16298, 12308]

w\_j------------ [14.8, 15.9, 16.5, 27.2, 39.0]

h\_j------------ [3.4, 8.4, 5.8, 8.2, 9.6]

e\_j------------ [21.0, 26.5, 66.4, 79.9, 60.0]

f\_j------------ [148.7, 83.8, 68.0, 106.8, 66.5]

（2）

q\_j------------ [15853, 13530, 14087, 18372, 14275]

w\_j------------ [11.5, 23.1, 26.9, 33.9, 49.4]

h\_j------------ [9.0, 5.4, 2.8, 8.8, 2.0]

e\_j------------ [45.3, 67.5, 58.6, 52.2, 67.4]

f\_j------------ [140.2, 115.6, 125.5, 119.2, 113.2]

（3）

q\_j------------ [13329, 15847, 12899, 16498, 16684]

w\_j------------ [16.9, 27.9, 32.1, 33.1, 49.1]

h\_j------------ [3.0, 4.1, 5.6, 4.9, 9.1]

e\_j------------ [25.9, 75.6, 69.9, 41.2, 61.2]

f\_j------------ [133.3, 87.0, 143.6, 85.6, 86.5]

（4）

q\_j------------ [13899, 10900, 11047, 12960, 12972]

w\_j------------ [12.3, 22.8, 26.3, 34.8, 45.7]

h\_j------------ [2.5, 7.9, 8.9, 8.5, 2.8]

e\_j------------ [38.5, 48.9, 27.2, 42.4, 61.7]

f\_j------------ [108.5, 94.2, 134.2, 133.5, 60.5]

（5）

q\_j------------ [13291, 13914, 13610, 18147, 11225]

w\_j------------ [13.0, 25.7, 47.4, 48.0, 48.1]

h\_j------------ [9.0, 2.3, 2.2, 5.5, 2.3]

e\_j------------ [79.7, 32.4, 35.9, 33.4, 51.1]

f\_j------------ [51.9, 99.9, 110.5, 103.0, 141.3]

J=5 s3

（1）

q\_j------------ [19508, 13642, 14306, 14496, 10757]

w\_j------------ [17.7, 19.8, 40.0, 44.5, 49.8]

h\_j------------ [3.9, 4.4, 8.6, 6.0, 5.4]

e\_j------------ [70.6, 79.0, 45.4, 61.4, 48.3]

f\_j------------ [147.7, 143.6, 107.8, 116.7, 121.6]

（2）

q\_j------------ [14055, 15911, 19944, 16465, 19880]

w\_j------------ [22.1, 26.1, 34.5, 48.9, 49.8]

h\_j------------ [9.7, 6.0, 2.6, 4.0, 9.2]

e\_j------------ [51.1, 20.1, 37.6, 79.7, 46.4]

f\_j------------ [60.5, 66.5, 123.7, 58.1, 103.5]

（3）

q\_j------------ [19317, 10637, 13281, 14335, 10388]

w\_j------------ [11.7, 24.8, 31.9, 40.7, 44.2]

h\_j------------ [3.2, 5.9, 5.3, 2.6, 4.2]

e\_j------------ [55.0, 51.3, 44.6, 20.1, 77.9]

f\_j------------ [140.4, 126.4, 89.6, 149.9, 61.7]

（4）

q\_j------------ [12253, 10180, 11489, 17606, 14817]

w\_j------------ [13.2, 14.2, 23.4, 35.7, 38.4]

h\_j------------ [5.1, 6.8, 9.5, 7.4, 5.6]

e\_j------------ [22.0, 28.5, 22.1, 54.7, 76.2]

f\_j------------ [66.1, 84.3, 67.5, 129.8, 107.0]

（5）

q\_j------------ [13010, 11196, 10282, 12491, 15333]

w\_j------------ [15.5, 23.3, 28.7, 29.2, 38.7]

h\_j------------ [4.9, 9.2, 7.2, 5.7, 3.2]

e\_j------------ [56.2, 43.9, 26.8, 68.3, 50.0]

f\_j------------ [147.4, 98.9, 124.4, 82.8, 76.0]

J=10 s1

（1）

q\_j------------ [13795, 12078, 14777, 16939, 13820, 15384, 12143, 15541, 13804, 18105]

w\_j------------ [15.5, 16.8, 20.8, 22.8, 27.7, 29.6, 38.1, 38.5, 44.1, 45.5]

h\_j------------ [5.1, 5.0, 5.9, 8.7, 3.2, 3.4, 7.2, 6.6, 2.1, 3.1]

e\_j------------ [79.2, 29.6, 23.0, 46.2, 52.7, 61.0, 35.3, 21.3, 39.4, 47.2]

f\_j------------ [93.9, 133.2, 95.7, 71.7, 143.4, 137.6, 92.2, 62.2, 122.3, 148.8]

（2）

q\_j------------ [11484, 15445, 17384, 10825, 19192, 11306, 18751, 16250, 16497, 18186]

w\_j------------ [10.3, 12.7, 13.5, 20.5, 22.2, 30.1, 37.2, 40.9, 41.7, 46.7]

h\_j------------ [2.5, 7.4, 6.5, 6.2, 2.6, 9.6, 4.5, 7.5, 4.7, 7.5]

e\_j------------ [67.9, 69.9, 59.1, 34.1, 79.1, 22.8, 58.5, 44.4, 33.2, 32.7]

f\_j------------ [139.2, 98.7, 77.8, 136.4, 135.5, 62.2, 130.7, 71.1, 127.9, 134.9]

（3）

q\_j------------ [15926, 18717, 13849, 12944, 19849, 11598, 19257, 12212, 15927, 15927]

w\_j------------ [13.7, 26.8, 35.5, 35.9, 38.8, 40.5, 43.8, 44.9, 45.8, 45.8]

h\_j------------ [2.8, 2.5, 5.8, 7.5, 8.1, 3.8, 4.4, 6.9, 9.3, 9.3]

e\_j------------ [48.9, 71.1, 40.5, 37.4, 64.1, 31.2, 79.5, 48.1, 41.7, 41.7]

f\_j------------ [114.4, 56.5, 95.4, 65.1, 117.7, 98.6, 97.4, 127.5, 102.6, 102.6]

（4）

q\_j------------ [19027, 19130, 10593, 15750, 12652, 13453, 18487, 19218, 14082, 19838]

w\_j------------ [10.0, 14.5, 28.6, 29.4, 30.6, 34.2, 39.8, 41.0, 48.6, 49.0]

h\_j------------ [4.1, 9.2, 8.9, 7.2, 9.2, 3.1, 3.6, 8.3, 2.6, 7.4]

e\_j------------ [42.5, 39.7, 27.1, 73.1, 25.0, 22.1, 36.8, 80.0, 58.6, 33.9]

f\_j------------ [78.9, 52.4, 58.3, 91.9, 95.7, 86.3, 67.2, 98.6, 80.0, 116.7]

（5）

q\_j------------ [16965, 11616, 12833, 11877, 18198, 13237, 14274, 16829, 15893, 11295]

w\_j------------ [12.8, 14.1, 19.7, 21.0, 31.7, 32.3, 40.2, 43.7, 44.5, 44.7]

h\_j------------ [4.5, 2.3, 4.8, 7.2, 7.0, 4.8, 3.6, 7.3, 9.2, 3.3]

e\_j------------ [75.2, 72.4, 66.8, 39.1, 38.6, 37.8, 77.6, 39.2, 34.2, 48.4]

f\_j------------ [81.1, 144.8, 118.3, 109.9, 56.4, 100.1, 108.6, 61.7, 127.1, 128.1]

J=10 s2

（1）

q\_j------------ [14004, 17401, 14147, 10805, 12982, 18695, 11311, 19082, 13755, 16862]

w\_j------------ [10.9, 11.9, 16.5, 26.4, 28.2, 29.3, 29.6, 38.8, 39.3, 40.3]

h\_j------------ [7.6, 5.0, 8.4, 8.2, 8.1, 8.7, 3.2, 5.9, 9.3, 6.1]

e\_j------------ [72.2, 37.3, 68.0, 78.1, 53.2, 31.7, 44.3, 61.1, 65.0, 24.7]

f\_j------------ [123.5, 131.0, 90.9, 108.7, 143.4, 133.8, 127.9, 94.9, 73.3, 103.6]

（2）

q\_j------------ [10814, 17508, 16156, 15817, 17241, 11371, 16390, 15682, 13112, 17774]

w\_j------------ [10.5, 16.4, 19.5, 21.0, 21.4, 24.3, 30.2, 33.7, 42.7, 48.6]

h\_j------------ [6.7, 2.7, 8.8, 8.8, 2.8, 7.5, 8.5, 9.4, 9.7, 2.3]

e\_j------------ [21.7, 53.5, 78.1, 55.7, 61.0, 50.2, 21.9, 52.7, 59.7, 29.9]

f\_j------------ [101.8, 89.8, 149.2, 116.7, 149.8, 129.3, 127.7, 60.7, 53.6, 64.3]

（3）

q\_j------------ [12468, 19162, 10983, 18147, 11679, 17600, 18548, 19264, 10139, 17623]

w\_j------------ [16.2, 20.7, 21.8, 21.9, 29.3, 32.6, 33.4, 39.4, 39.7, 46.4]

h\_j------------ [2.9, 8.2, 4.7, 7.9, 6.9, 9.0, 7.7, 2.6, 6.4, 8.2]

e\_j------------ [48.4, 78.0, 29.9, 58.0, 25.5, 65.9, 52.0, 51.7, 44.2, 30.8]

f\_j------------ [148.0, 50.9, 143.2, 82.1, 113.9, 59.1, 123.8, 149.2, 67.0, 54.8]

（4）

q\_j------------ [18458, 19922, 18686, 10813, 11709, 10362, 11998, 19792, 13845, 13646]

w\_j------------ [11.6, 23.2, 25.3, 33.8, 34.4, 35.9, 42.3, 45.0, 48.3, 48.6]

h\_j------------ [7.4, 8.2, 7.6, 9.8, 3.3, 4.1, 9.5, 5.2, 3.9, 2.3]

e\_j------------ [53.2, 40.7, 36.8, 61.1, 71.8, 51.0, 27.8, 68.3, 57.1, 34.5]

f\_j------------ [106.1, 131.4, 116.0, 134.1, 53.7, 69.8, 111.3, 79.5, 109.7, 52.5]

（5）

q\_j------------ [10809, 12340, 10102, 17241, 17714, 19096, 15204, 14309, 13302, 19814]

w\_j------------ [10.1, 21.5, 25.5, 34.4, 36.5, 40.2, 44.9, 45.6, 46.4, 48.9]

h\_j------------ [8.8, 9.6, 3.7, 8.8, 8.3, 4.9, 4.2, 6.6, 6.1, 5.8]

e\_j------------ [53.8, 61.3, 56.4, 45.1, 55.8, 32.8, 65.6, 62.9, 51.5, 39.3]

f\_j------------ [139.0, 133.8, 143.3, 92.5, 93.2, 114.8, 89.3, 130.9, 93.6, 134.6]

J=10 s3

(1)

q\_j------------ [17029, 12822, 16050, 15603, 10738, 14976, 10676, 11562, 15786, 18419]

w\_j------------ [19.6, 20.5, 21.3, 22.6, 26.0, 27.7, 34.2, 38.9, 39.6, 47.1]

h\_j------------ [6.9, 9.2, 8.1, 4.4, 5.1, 9.3, 3.7, 4.9, 4.7, 2.2]

e\_j------------ [53.6, 47.8, 25.1, 32.2, 36.3, 39.7, 78.2, 64.2, 28.0, 54.7]

f\_j------------ [103.6, 62.4, 69.9, 77.4, 79.3, 107.9, 85.2, 87.1, 53.7, 130.9]

(2)

q\_j------------ [16435, 18583, 11675, 10738, 10172, 13387, 15224, 17847, 12045, 14439]

w\_j------------ [13.2, 18.9, 19.4, 23.7, 33.1, 34.1, 34.6, 36.1, 36.2, 47.5]

h\_j------------ [9.2, 2.7, 4.7, 6.8, 6.7, 6.5, 2.8, 2.7, 6.5, 4.1]

e\_j------------ [55.1, 66.6, 39.1, 70.9, 61.6, 79.9, 75.2, 37.4, 39.6, 54.1]

f\_j------------ [73.0, 129.9, 68.6, 79.0, 71.2, 66.5, 132.7, 130.8, 141.9, 135.3]

(3)

q\_j------------ [17619, 16976, 16818, 19892, 15824, 17345, 14058, 18124, 15692, 12569]

w\_j------------ [10.8, 17.4, 17.6, 23.0, 32.0, 36.7, 42.1, 45.8, 46.7, 47.8]

h\_j------------ [6.0, 5.0, 2.7, 7.7, 2.1, 7.7, 6.2, 2.7, 9.8, 5.7]

e\_j------------ [76.4, 76.8, 50.8, 42.1, 58.2, 51.2, 40.9, 25.1, 68.9, 24.2]

f\_j------------ [128.0, 125.8, 118.0, 132.3, 65.8, 145.0, 122.1, 74.8, 125.7, 91.1]

(4)

q\_j------------ [17212, 17607, 17561, 18105, 15854, 15070, 12426, 18827, 11205, 19895]

w\_j------------ [10.7, 28.7, 28.9, 32.6, 33.5, 42.6, 46.1, 48.2, 49.1, 49.5]

h\_j------------ [8.1, 4.0, 3.6, 6.4, 7.5, 9.6, 3.8, 8.1, 6.8, 3.7]

e\_j------------ [23.5, 27.9, 72.9, 57.8, 66.8, 70.3, 56.9, 61.8, 27.1, 65.3]

f\_j------------ [142.1, 53.4, 122.3, 95.9, 71.2, 129.1, 90.2, 67.8, 138.8, 66.6]

(5)

q\_j------------ [19869, 13372, 17835, 16689, 10617, 15769, 12977, 17742, 19758, 11051]

w\_j------------ [11.7, 16.9, 22.1, 23.2, 31.8, 32.2, 38.8, 41.2, 42.9, 44.8]

h\_j------------ [7.0, 9.9, 7.8, 2.8, 6.7, 6.5, 2.2, 5.0, 6.2, 3.6]

e\_j------------ [60.3, 26.8, 55.4, 42.3, 50.1, 55.0, 33.5, 32.5, 78.0, 22.0]

f\_j------------ [96.4, 103.0, 81.2, 122.0, 66.6, 135.7, 87.7, 56.7, 109.9, 138.5]

J=20 s1

（1）

q\_j------------ [10482, 19678, 12972, 14040, 18984, 10487, 17204, 12052, 17483, 15812, 17234, 19041, 15882, 13054, 19086, 19880, 11439, 11248, 12778, 18729]

w\_j------------ [11.6, 14.2, 15.3, 17.1, 18.3, 19.6, 24.3, 24.7, 26.4, 27.0, 28.2, 29.7, 31.5, 31.8, 35.3, 36.9, 37.7, 42.6, 46.7, 47.0]

h\_j------------ [7.4, 8.9, 8.1, 9.5, 6.1, 3.6, 7.7, 2.2, 2.1, 6.3, 3.7, 3.6, 6.9, 5.6, 2.5, 6.3, 4.7, 2.8, 9.4, 7.2]

e\_j------------ [30.8, 72.6, 66.5, 65.0, 26.6, 22.3, 69.2, 21.2, 68.5, 48.2, 57.3, 60.5, 50.0, 77.8, 61.2, 62.8, 33.6, 40.8, 40.7, 20.9]

f\_j------------ [103.5, 138.6, 129.0, 68.9, 79.8, 145.5, 135.2, 123.5, 100.9, 137.1, 122.0, 59.3, 77.6, 119.9, 56.2, 50.3, 82.2, 86.8, 91.6, 68.3]

（2）

q\_j------------ [16111, 17854, 14593, 17266, 12267, 13104, 19718, 13621, 13804, 12117, 12897, 12729, 12129, 17414, 10902, 12250, 12135, 19180, 17568, 18519]

w\_j------------ [17.0, 18.1, 18.5, 21.1, 21.3, 23.4, 24.1, 27.9, 28.6, 35.3, 35.8, 37.9, 38.2, 38.3, 40.7, 42.6, 45.6, 45.7, 47.3, 47.6]

h\_j------------ [9.2, 4.1, 6.5, 8.2, 8.4, 6.0, 7.4, 9.0, 6.3, 3.9, 6.5, 8.6, 4.2, 8.7, 9.3, 2.1, 9.4, 5.3, 3.0, 9.8]

e\_j------------ [64.2, 70.6, 34.0, 59.1, 57.6, 47.7, 74.5, 54.8, 52.2, 66.5, 77.4, 75.4, 72.3, 46.9, 53.5, 33.6, 57.3, 38.4, 45.3, 43.7]

f\_j------------ [55.8, 132.3, 127.3, 141.0, 128.8, 131.8, 139.0, 81.2, 122.9, 123.9, 131.3, 75.8, 112.6, 90.8, 83.7, 63.8, 136.8, 113.5, 149.0, 128.3]

（3）

q\_j------------ [11491, 18399, 19094, 11127, 18349, 12581, 11190, 17726, 10025, 15122, 11906, 13008, 11911, 11911, 17124, 18074, 17121, 15476, 10814, 19473]

w\_j------------ [10.9, 12.6, 13.0, 13.4, 16.2, 18.0, 18.1, 20.1, 25.7, 26.8, 27.2, 31.4, 33.5, 33.5, 36.4, 39.8, 43.3, 43.8, 44.7, 49.0]

h\_j------------ [5.3, 7.9, 9.9, 6.7, 9.4, 4.6, 4.1, 9.5, 8.7, 5.4, 2.9, 3.3, 3.7, 3.7, 8.0, 7.4, 8.4, 5.3, 4.3, 7.8]

e\_j------------ [55.9, 28.9, 38.3, 25.5, 24.2, 41.6, 25.6, 55.1, 26.7, 56.7, 46.1, 76.9, 36.4, 36.4, 45.8, 41.1, 25.7, 60.9, 27.9, 58.2]

f\_j------------ [67.8, 113.3, 72.1, 140.5, 121.3, 114.7, 111.5, 113.2, 112.1, 104.0, 54.8, 118.4, 129.2, 129.2, 128.8, 128.5, 59.6, 99.4, 127.5, 86.8]

（4）

q\_j------------ [17086, 15491, 13161, 17620, 17620, 17107, 10547, 14502, 11835, 14267, 15036, 13842, 12630, 17648, 15287, 10795, 17020, 11867, 12730, 17756]

w\_j------------ [10.8, 12.2, 13.9, 14.4, 14.4, 16.6, 22.8, 24.2, 24.4, 24.9, 26.0, 26.5, 28.8, 29.5, 32.3, 33.1, 41.5, 45.1, 48.3, 48.6]

h\_j------------ [8.2, 7.4, 9.9, 4.8, 4.8, 5.7, 4.2, 8.0, 3.0, 4.8, 2.8, 3.2, 6.0, 7.8, 8.4, 9.4, 2.8, 4.6, 3.6, 5.5]

e\_j------------ [38.5, 26.6, 73.1, 79.9, 79.9, 53.3, 36.9, 63.7, 63.1, 64.4, 78.0, 56.5, 23.9, 48.9, 33.1, 37.3, 63.7, 37.8, 23.9, 63.7]

f\_j------------ [118.9, 84.6, 141.2, 56.8, 56.8, 134.3, 67.2, 122.6, 71.7, 86.6, 120.0, 86.0, 139.7, 93.8, 146.4, 90.5, 83.0, 108.1, 59.7, 64.4]

（5）

q\_j------------ [17557, 17945, 10528, 17168, 12017, 10553, 11135, 14910, 17318, 15838, 15838, 10221, 14899, 18720, 10383, 16867, 14967, 10989, 14060, 14960]

w\_j------------ [12.7, 13.2, 14.7, 15.4, 16.4, 19.6, 20.1, 22.7, 28.2, 29.2, 29.2, 30.7, 31.0, 31.5, 33.7, 42.6, 42.9, 47.0, 48.7, 49.8]

h\_j------------ [8.5, 2.5, 5.6, 8.6, 5.7, 7.2, 2.7, 2.5, 9.7, 2.2, 2.2, 5.1, 3.8, 8.9, 5.4, 7.8, 6.3, 7.2, 2.6, 9.8]

e\_j------------ [28.3, 33.7, 45.1, 52.8, 47.5, 49.5, 61.2, 44.5, 37.1, 21.9, 21.9, 33.0, 64.8, 53.8, 48.6, 41.0, 21.1, 44.6, 69.8, 41.5]

f\_j------------ [101.4, 133.0, 68.7, 88.3, 118.4, 118.3, 106.3, 87.7, 92.7, 53.4, 53.4, 112.6, 67.4, 148.4, 99.1, 66.3, 130.5, 88.0, 114.2, 50.7]

* J=20 s2

（1）

q\_j------------ [19559, 10083, 13478, 12277, 16667, 14809, 15481, 12308, 19012, 13715, 15539, 16095, 18965, 16403, 12094, 10597, 13376, 11575, 17755, 19602]

w\_j------------ [11.2, 16.0, 16.1, 16.8, 17.1, 20.3, 20.4, 20.9, 21.8, 22.9, 27.9, 28.0, 29.4, 29.5, 33.9, 34.0, 35.4, 39.7, 40.2, 46.7]

h\_j------------ [9.5, 2.6, 8.5, 4.7, 4.8, 7.9, 3.1, 6.1, 2.9, 7.2, 7.7, 6.3, 7.6, 4.6, 10.0, 6.9, 3.2, 4.6, 6.6, 3.2]

e\_j------------ [28.8, 58.9, 53.3, 58.9, 22.7, 77.2, 46.8, 22.3, 27.3, 35.2, 51.7, 68.1, 53.1, 23.3, 51.1, 34.1, 73.9, 38.6, 76.2, 40.2]

f\_j------------ [114.6, 92.8, 58.0, 114.7, 54.5, 79.4, 128.3, 114.2, 104.3, 111.3, 60.6, 72.6, 101.0, 116.1, 77.1, 111.7, 137.9, 73.8, 142.1, 139.3]

（2）

q\_j------------ [17870, 10658, 10852, 19278, 12755, 14413, 13513, 11246, 15652, 16844, 10747, 11571, 15148, 11892, 14180, 19204, 17058, 10557, 16873, 11686]

w\_j------------ [13.0, 13.7, 16.1, 19.8, 19.9, 23.3, 24.2, 24.4, 25.4, 29.4, 30.5, 33.3, 35.2, 37.7, 38.8, 39.1, 40.5, 41.7, 47.7, 48.2]

h\_j------------ [7.4, 2.5, 3.7, 8.5, 6.2, 2.7, 3.1, 5.5, 4.9, 6.2, 7.0, 4.4, 7.9, 6.0, 5.1, 8.6, 2.9, 5.8, 8.3, 2.9]

e\_j------------ [42.9, 57.5, 67.7, 40.5, 25.1, 30.8, 34.2, 69.9, 59.5, 61.1, 50.1, 25.1, 45.0, 44.0, 75.7, 32.9, 37.6, 34.2, 25.7, 33.5]

f\_j------------ [56.2, 97.0, 132.6, 127.8, 108.2, 121.0, 104.1, 61.6, 79.1, 82.7, 140.3, 149.7, 118.0, 95.2, 122.3, 76.6, 120.6, 128.9, 118.9, 102.3]

（3）

q\_j------------ [11786, 15919, 11089, 10872, 10872, 13002, 10138, 12025, 19088, 16940, 16260, 16603, 16719, 18583, 17407, 12964, 15712, 17787, 18347, 11379]

w\_j------------ [10.6, 11.0, 11.3, 15.2, 15.2, 15.9, 20.4, 22.7, 24.5, 31.1, 31.9, 32.1, 32.3, 33.8, 34.0, 34.9, 36.4, 37.2, 44.7, 45.3]

h\_j------------ [3.8, 7.8, 5.8, 5.8, 5.8, 2.6, 7.7, 3.5, 8.8, 9.0, 3.5, 8.8, 6.8, 3.6, 2.5, 7.5, 6.5, 5.5, 3.5, 4.9]

e\_j------------ [27.2, 56.3, 58.1, 51.7, 51.7, 54.8, 52.8, 37.1, 44.9, 63.2, 66.5, 23.6, 47.5, 69.6, 57.7, 36.3, 28.1, 35.8, 67.0, 40.7]

f\_j------------ [112.4, 93.4, 66.9, 73.0, 73.0, 81.7, 137.4, 91.3, 107.0, 67.3, 66.9, 141.4, 106.0, 143.9, 86.7, 52.5, 88.3, 140.0, 134.0, 77.9]

（4）

q\_j------------ [18990, 10298, 18701, 17613, 11276, 18256, 11087, 15653, 13205, 13020, 14036, 16804, 15063, 19745, 10843, 16516, 17606, 11959, 13854, 18602]

w\_j------------ [13.2, 13.5, 13.6, 15.4, 15.5, 17.7, 19.0, 20.5, 21.3, 26.3, 30.6, 32.1, 34.2, 35.6, 36.1, 38.8, 43.3, 46.4, 46.5, 49.6]

h\_j------------ [3.1, 6.0, 8.6, 2.8, 3.0, 5.7, 6.9, 2.2, 8.7, 3.9, 7.2, 3.5, 8.1, 3.2, 3.7, 9.7, 8.4, 8.7, 3.7, 8.4]

e\_j------------ [21.1, 34.2, 44.9, 36.6, 61.2, 45.0, 49.9, 35.5, 25.3, 25.8, 72.1, 60.7, 55.0, 30.6, 40.2, 33.3, 40.4, 38.6, 41.3, 26.7]

f\_j------------ [68.0, 146.9, 139.7, 120.8, 62.8, 147.1, 142.2, 141.5, 67.0, 92.2, 145.5, 124.2, 142.3, 102.6, 117.2, 77.6, 74.8, 137.9, 57.0, 68.7]

（5）

q\_j------------ [11748, 14047, 11505, 12364, 19555, 16401, 15105, 15905, 15905, 16476, 11152, 13603, 10685, 15397, 17200, 11004, 11004, 16841, 18395, 11884]

w\_j------------ [11.2, 12.4, 13.9, 17.9, 23.4, 23.8, 24.4, 24.9, 24.9, 28.4, 29.1, 29.6, 35.4, 35.6, 35.8, 36.2, 36.2, 38.5, 45.1, 46.8]

h\_j------------ [5.6, 5.7, 4.0, 9.6, 8.9, 2.3, 2.9, 8.2, 8.2, 7.5, 2.2, 2.9, 4.2, 7.5, 5.0, 9.1, 9.1, 3.5, 9.6, 7.1]

e\_j------------ [67.9, 53.1, 62.5, 27.0, 59.0, 60.1, 24.8, 44.0, 44.0, 49.7, 59.6, 20.7, 66.8, 64.2, 64.3, 53.5, 53.5, 63.4, 29.1, 41.4]

f\_j------------ [99.2, 106.5, 54.2, 82.2, 131.5, 58.4, 146.5, 140.1, 140.1, 106.5, 65.9, 65.6, 60.8, 119.7, 90.7, 90.0, 90.0, 143.8, 76.6, 58.0]

J=20 s3

（1）

q\_j------------ [14417, 17453, 19808, 12906, 13987, 13659, 15926, 15216, 15216, 13174, 11895, 16640, 12872, 14655, 12441, 18429, 13819, 12220, 12745, 10739]

w\_j------------ [11.2, 11.3, 11.7, 13.5, 15.3, 20.3, 22.0, 22.2, 22.2, 27.3, 29.2, 32.6, 40.7, 41.2, 42.2, 43.9, 44.7, 46.5, 47.4, 49.6]

h\_j------------ [3.2, 5.0, 2.8, 9.8, 6.0, 9.6, 2.3, 8.7, 8.7, 9.9, 4.4, 4.7, 5.3, 4.1, 6.3, 8.3, 3.5, 4.5, 8.6, 4.8]

e\_j------------ [22.5, 73.9, 22.2, 35.5, 36.7, 22.0, 70.6, 28.6, 28.6, 29.2, 32.4, 62.7, 62.0, 28.3, 35.1, 31.7, 48.2, 43.4, 69.5, 60.5]

f\_j------------ [99.8, 140.1, 96.3, 56.9, 96.3, 139.4, 107.4, 116.6, 116.6, 118.6, 136.1, 79.5, 54.5, 138.9, 117.8, 109.3, 112.4, 141.5, 140.6, 136.1]

（2）

q\_j------------ [19710, 18117, 14931, 13056, 15932, 18801, 13268, 18638, 11443, 10933, 11884, 11457, 11196, 16123, 14841, 17421, 12575, 16944, 11414, 16585]

w\_j------------ [13.1, 14.0, 15.4, 15.8, 17.4, 17.8, 19.0, 20.8, 22.7, 24.4, 27.9, 30.1, 33.2, 33.9, 35.0, 39.8, 47.7, 47.9, 49.6, 49.9]

h\_j------------ [5.6, 4.3, 2.2, 4.2, 8.2, 8.7, 10.0, 9.8, 9.8, 7.1, 3.6, 7.8, 7.1, 7.6, 9.7, 6.1, 4.1, 7.0, 6.9, 3.4]

e\_j------------ [70.4, 77.9, 35.2, 22.4, 77.4, 22.2, 55.9, 60.0, 52.4, 36.5, 36.0, 47.8, 35.4, 59.6, 22.4, 56.8, 61.3, 40.1, 69.4, 38.7]

f\_j------------ [95.7, 84.9, 109.5, 139.0, 138.1, 78.7, 58.6, 143.3, 144.5, 92.0, 106.7, 116.9, 132.0, 85.7, 87.4, 103.2, 86.6, 54.4, 77.0, 122.3]

（3）

q\_j------------ [19634, 12320, 17343, 14669, 18947, 16950, 17861, 17273, 19661, 10037, 18035, 13495, 17863, 17863, 14263, 12897, 16789, 16915, 11610, 11510]

w\_j------------ [13.1, 15.1, 15.3, 18.3, 19.4, 20.8, 22.1, 23.3, 23.7, 24.3, 25.9, 26.5, 27.5, 27.5, 31.7, 34.0, 35.9, 39.7, 42.8, 43.3]

h\_j------------ [6.6, 3.3, 4.9, 8.0, 8.4, 6.3, 7.2, 7.0, 4.6, 2.3, 6.0, 5.1, 5.7, 5.7, 4.8, 5.2, 6.8, 4.7, 4.2, 9.8]

e\_j------------ [66.5, 69.2, 42.1, 49.9, 26.3, 41.4, 55.4, 59.4, 66.3, 22.6, 21.6, 27.2, 60.5, 60.5, 39.0, 41.3, 69.4, 65.9, 68.7, 71.6]

f\_j------------ [56.9, 113.1, 121.4, 138.6, 76.7, 109.0, 142.3, 53.9, 146.4, 126.8, 135.2, 61.3, 125.2, 125.2, 73.9, 116.3, 61.9, 91.6, 141.8, 70.6]

（4）

q\_j------------ [15904, 19523, 17793, 10632, 19238, 13925, 14513, 15397, 11256, 15731, 10504, 10400, 14930, 18792, 18500, 16719, 13526, 19294, 17288, 14493]

w\_j------------ [11.3, 12.7, 15.7, 16.0, 16.2, 22.9, 25.0, 27.8, 28.2, 33.3, 35.0, 35.4, 36.9, 37.6, 39.2, 40.5, 43.0, 43.7, 48.0, 48.7]

h\_j------------ [8.8, 3.2, 4.2, 5.2, 2.4, 3.5, 5.8, 2.4, 5.9, 5.6, 4.2, 8.1, 5.0, 6.7, 3.3, 3.3, 4.1, 9.2, 4.3, 2.9]

e\_j------------ [30.8, 50.6, 74.1, 70.1, 75.0, 62.1, 79.3, 50.3, 68.6, 26.0, 37.6, 64.0, 41.2, 69.9, 40.8, 48.0, 74.1, 34.8, 78.7, 48.1]

f\_j------------ [118.7, 132.2, 141.2, 112.0, 76.2, 90.2, 53.1, 113.7, 118.6, 67.3, 148.1, 95.5, 89.2, 113.3, 137.5, 77.0, 135.1, 146.8, 149.0, 117.7]

（5）

q\_j------------ [16204, 19289, 13771, 11462, 16292, 11494, 11494, 17062, 13619, 18029, 18029, 16853, 16957, 18590, 16752, 12369, 15495, 12100, 11818, 19910]

w\_j------------ [13.7, 16.8, 17.1, 23.2, 24.7, 25.8, 25.8, 29.3, 29.4, 29.9, 29.9, 30.6, 32.1, 36.7, 38.3, 39.5, 40.5, 48.1, 48.5, 49.4]

h\_j------------ [9.6, 3.0, 7.4, 2.7, 3.3, 5.8, 5.8, 3.1, 3.4, 6.7, 6.7, 2.1, 7.7, 7.6, 8.0, 8.1, 9.3, 8.8, 3.9, 8.3]

e\_j------------ [48.3, 50.6, 35.9, 44.7, 70.1, 74.3, 74.3, 37.6, 42.2, 31.1, 31.1, 40.0, 50.1, 26.8, 55.0, 56.7, 40.2, 55.6, 53.8, 35.2]

f\_j------------ [73.6, 100.4, 143.8, 79.4, 122.9, 51.0, 51.0, 95.5, 120.1, 102.6, 102.6, 72.2, 110.2, 108.6, 135.9, 140.1, 145.4, 87.2, 97.9, 148.5]

J=30 s1

(1)

q\_j------------ [14275, 16127, 13139, 12892, 13256, 15421, 18753, 12889, 12734, 16261, 16829, 19333, 16862, 19379, 15193, 12232, 12232, 14012, 19451, 19612, 19789, 19319, 10238, 16143, 17578, 18398, 12939, 12289, 10193, 17081]

w\_j------------ [13.8, 16.7, 18.3, 19.1, 19.7, 20.3, 21.5, 21.9, 23.1, 23.2, 25.5, 26.7, 26.9, 28.1, 29.4, 31.2, 31.2, 33.2, 33.4, 34.1, 34.3, 35.1, 35.9, 36.8, 39.8, 46.5, 48.2, 48.4, 48.7, 48.8]

h\_j------------ [7.5, 3.7, 8.0, 3.7, 8.9, 9.4, 9.7, 6.9, 2.8, 8.7, 7.1, 6.2, 4.3, 4.2, 6.0, 3.2, 3.2, 6.5, 4.5, 5.3, 8.7, 7.7, 6.0, 7.4, 5.2, 6.9, 4.5, 8.6, 7.2, 4.8]

e\_j------------ [51.5, 37.9, 37.1, 66.3, 77.2, 49.5, 55.3, 67.8, 52.9, 55.6, 69.4, 60.6, 46.2, 25.8, 75.1, 61.2, 61.2, 41.9, 20.4, 53.4, 27.5, 79.0, 58.9, 61.6, 68.0, 21.8, 34.1, 70.5, 64.4, 49.3]

f\_j------------ [131.8, 110.2, 76.4, 82.1, 95.7, 93.1, 123.0, 149.5, 95.5, 64.2, 56.5, 67.3, 81.5, 96.6, 78.5, 128.0, 128.0, 77.0, 144.8, 68.4, 52.3, 94.2, 83.1, 134.4, 73.7, 120.0, 71.4, 141.6, 54.9, 113.9]

（2）

q\_j------------ [10469, 19738, 19738, 15364, 10620, 11614, 10538, 10452, 13212, 18932, 16100, 16100, 15369, 18430, 11541, 14036, 12439, 13599, 16247, 10989, 10933, 17444, 15330, 17294, 12767, 18547, 11489, 13504, 13808, 12936]

w\_j------------ [10.9, 12.4, 12.4, 12.7, 13.4, 14.2, 15.7, 18.7, 19.9, 21.2, 21.8, 21.8, 24.0, 24.7, 29.1, 31.0, 31.9, 35.3, 36.7, 37.2, 37.8, 38.3, 38.8, 41.7, 43.0, 44.5, 45.7, 45.9, 46.9, 49.2]

h\_j------------ [7.1, 8.8, 8.8, 6.1, 9.2, 3.0, 2.1, 8.3, 5.8, 4.3, 3.1, 3.1, 8.7, 10.0, 8.5, 4.2, 6.7, 9.9, 8.3, 6.5, 9.9, 2.5, 5.7, 2.5, 4.8, 6.4, 2.9, 3.7, 7.4, 2.1]

e\_j------------ [60.1, 21.7, 21.7, 29.1, 23.8, 30.1, 48.1, 33.0, 62.9, 38.7, 36.9, 36.9, 46.0, 26.6, 33.5, 74.9, 76.2, 37.9, 45.0, 68.5, 37.8, 61.4, 64.6, 21.4, 37.2, 39.3, 58.9, 61.1, 32.6, 60.9]

f\_j------------ [130.3, 57.8, 57.8, 125.5, 51.1, 110.1, 137.5, 81.0, 140.1, 114.4, 146.9, 146.9, 57.0, 143.7, 58.4, 72.6, 146.0, 107.2, 54.5, 100.6, 87.8, 53.3, 112.3, 126.0, 85.1, 125.3, 103.9, 72.0, 76.8, 106.9]

（3）

q\_j------------ [13219, 14990, 15720, 16989, 11406, 18022, 17075, 17986, 12087, 19216, 17755, 10929, 11180, 10378, 11968, 16126, 15310, 15086, 11472, 11282, 12799, 17560, 16100, 16100, 18600, 10025, 14020, 19131, 19299, 14500]

w\_j------------ [10.6, 12.3, 13.6, 17.7, 20.5, 21.1, 21.9, 24.2, 24.4, 26.9, 27.8, 29.3, 31.7, 32.6, 33.2, 33.5, 34.2, 34.3, 38.6, 39.3, 40.0, 43.1, 44.7, 44.7, 45.6, 45.8, 45.9, 47.8, 49.2, 49.5]

h\_j------------ [9.7, 5.0, 9.4, 6.8, 4.1, 5.7, 5.0, 8.8, 7.3, 4.5, 4.0, 6.4, 5.3, 2.3, 7.9, 2.1, 9.5, 9.9, 6.3, 4.6, 9.5, 6.8, 3.5, 3.5, 8.7, 6.7, 2.2, 4.0, 7.3, 9.7]

e\_j------------ [31.4, 61.6, 69.0, 49.2, 40.9, 74.6, 22.3, 57.6, 36.5, 46.6, 77.1, 68.3, 36.1, 42.9, 63.0, 74.2, 35.6, 69.2, 79.1, 48.8, 40.6, 67.6, 41.2, 41.2, 24.7, 46.9, 48.0, 22.9, 38.5, 47.8]

f\_j------------ [61.0, 110.4, 56.1, 101.1, 56.9, 147.2, 142.8, 74.0, 86.2, 79.6, 122.6, 55.6, 63.3, 120.7, 148.4, 102.3, 94.2, 61.2, 59.4, 51.7, 121.3, 83.9, 127.9, 127.9, 72.3, 75.5, 125.7, 130.2, 64.8, 104.2]

（4）

q\_j------------ [16264, 19347, 10409, 13761, 18742, 13380, 12087, 12378, 17835, 15546, 16063, 15019, 14173, 16419, 15349, 18431, 10311, 10006, 10006, 12718, 16293, 12113, 15267, 16191, 10617, 16909, 10443, 13959, 10438, 18243]

w\_j------------ [11.0, 11.4, 16.4, 16.8, 17.2, 20.1, 20.8, 21.4, 25.4, 26.7, 27.1, 27.4, 30.4, 30.7, 31.5, 32.5, 33.6, 33.8, 33.8, 34.5, 34.9, 35.3, 35.5, 36.5, 37.3, 39.2, 41.4, 43.9, 44.7, 45.8]

h\_j------------ [4.6, 5.4, 6.0, 8.4, 4.8, 7.5, 5.6, 5.8, 4.1, 8.1, 6.6, 3.0, 7.6, 9.8, 4.9, 6.6, 6.4, 3.8, 3.8, 9.9, 4.3, 3.2, 9.3, 6.6, 2.9, 5.5, 9.4, 4.2, 8.3, 6.6]

e\_j------------ [64.2, 75.3, 29.7, 77.5, 38.6, 71.2, 43.3, 30.7, 56.5, 68.8, 45.7, 54.4, 38.4, 23.8, 56.4, 59.9, 75.5, 50.6, 50.6, 72.2, 33.2, 50.9, 62.4, 70.1, 58.6, 40.9, 23.4, 40.7, 58.2, 46.8]

f\_j------------ [55.3, 98.9, 141.6, 137.0, 140.5, 138.0, 120.3, 92.8, 80.5, 76.4, 81.0, 72.6, 136.4, 61.1, 128.8, 90.7, 74.0, 55.0, 55.0, 139.8, 100.6, 70.5, 50.5, 64.0, 96.5, 110.2, 78.5, 139.8, 81.4, 119.4]

（5）

q\_j------------ [19152, 18765, 12857, 19392, 10592, 14131, 14329, 14606, 11798, 18402, 12884, 12990, 12184, 13207, 19076, 17321, 18595, 13895, 15205, 14020, 13339, 15958, 18110, 14395, 12018, 15231, 17920, 17158, 18984, 17893]

w\_j------------ [12.3, 15.7, 18.6, 20.4, 21.4, 21.8, 23.4, 24.5, 26.4, 28.0, 28.6, 29.8, 30.3, 31.8, 32.5, 33.0, 33.2, 34.2, 34.7, 36.0, 36.6, 37.4, 39.5, 40.9, 42.7, 44.3, 48.8, 49.1, 49.6, 50.0]

h\_j------------ [5.3, 2.1, 6.5, 8.8, 6.7, 9.3, 8.5, 3.8, 9.6, 5.3, 7.0, 4.3, 7.8, 4.6, 3.8, 7.2, 6.9, 4.0, 3.1, 4.1, 6.8, 7.9, 6.3, 7.0, 6.0, 3.1, 4.9, 5.5, 10.0, 4.4]

e\_j------------ [76.4, 63.1, 70.4, 38.2, 67.7, 49.0, 36.0, 70.3, 79.7, 45.4, 52.7, 29.7, 57.1, 63.3, 34.9, 74.4, 23.9, 73.2, 44.7, 66.4, 61.5, 39.5, 26.7, 38.2, 71.6, 74.8, 38.8, 56.7, 64.6, 34.9]

f\_j------------ [63.7, 140.5, 141.2, 132.2, 60.9, 140.1, 110.4, 89.8, 86.3, 149.0, 62.3, 79.6, 146.3, 56.9, 91.8, 128.3, 133.4, 83.3, 143.0, 145.0, 109.0, 93.6, 103.4, 124.2, 110.9, 148.9, 144.4, 147.7, 139.3, 148.0]

J=30 s2

（1）

q\_j------------ [10963, 10162, 15687, 10188, 12171, 18823, 18654, 13346, 17630, 17201, 11683, 10923, 15997, 13870, 11725, 11394, 14588, 12504, 14642, 16717, 11755, 18050, 18102, 10829, 17287, 17058, 10141, 15950, 15950, 14175]

w\_j------------ [12.4, 12.6, 20.1, 20.4, 20.9, 23.0, 25.4, 25.6, 26.9, 27.3, 27.6, 30.0, 33.9, 34.0, 34.4, 36.7, 37.5, 37.8, 39.0, 39.4, 41.0, 41.3, 45.4, 45.5, 45.8, 46.1, 47.9, 48.0, 48.0, 49.4]

h\_j------------ [5.5, 8.3, 3.1, 6.3, 8.6, 4.5, 8.7, 7.0, 3.8, 5.6, 7.6, 5.3, 8.4, 3.4, 6.7, 7.8, 7.2, 2.4, 3.3, 5.0, 2.2, 4.8, 5.3, 3.4, 8.3, 7.9, 4.1, 7.9, 7.9, 4.1]

e\_j------------ [77.8, 46.6, 65.6, 78.9, 79.6, 45.1, 78.3, 75.2, 52.7, 71.3, 34.1, 48.5, 80.0, 67.1, 48.6, 53.6, 68.6, 26.2, 44.2, 39.7, 26.6, 67.0, 31.5, 70.2, 37.5, 54.1, 74.1, 78.8, 78.8, 67.3]

f\_j------------ [50.1, 72.4, 105.1, 131.0, 125.1, 61.4, 85.6, 76.1, 51.1, 143.0, 55.9, 116.5, 94.2, 56.3, 127.0, 95.0, 58.1, 118.0, 51.3, 128.6, 96.2, 125.5, 112.3, 102.7, 97.0, 71.1, 59.0, 66.4, 66.4, 121.3]

（2）

q\_j------------ [14756, 15874, 10101, 15250, 15149, 12669, 11751, 15514, 16353, 17367, 17365, 17744, 15769, 11898, 12610, 16861, 17638, 11082, 13884, 13884, 14495, 14087, 14047, 12534, 13919, 10944, 14896, 13404, 13875, 15076]

w\_j------------ [10.3, 10.4, 12.6, 13.7, 13.8, 16.8, 16.9, 19.0, 19.2, 20.3, 21.1, 21.5, 22.7, 23.2, 24.2, 26.7, 29.4, 31.3, 31.6, 31.6, 31.9, 32.1, 37.7, 37.9, 38.3, 41.7, 45.4, 46.7, 47.0, 49.5]

h\_j------------ [7.9, 6.8, 2.2, 3.4, 9.9, 5.0, 6.5, 7.7, 7.1, 2.9, 3.2, 4.9, 6.1, 6.5, 9.6, 7.5, 3.4, 3.9, 5.5, 5.5, 4.9, 5.1, 5.0, 4.3, 8.7, 9.5, 6.4, 8.9, 2.2, 7.3]

e\_j------------ [45.8, 42.0, 79.2, 43.6, 75.5, 63.2, 52.0, 75.7, 79.0, 67.7, 58.8, 76.0, 67.8, 66.7, 23.8, 43.5, 26.2, 42.3, 69.6, 69.6, 23.2, 70.4, 35.4, 26.7, 48.4, 37.2, 56.1, 24.5, 74.8, 24.7]

f\_j------------ [113.3, 115.6, 92.2, 125.6, 131.0, 63.4, 130.3, 51.6, 94.6, 140.8, 59.1, 55.6, 107.5, 117.3, 75.9, 86.0, 88.1, 82.5, 90.2, 90.2, 58.1, 123.6, 122.9, 126.1, 63.5, 51.5, 92.8, 67.4, 69.1, 76.2]

（3）没记录

（4）

q\_j------------ [17941, 17635, 12219, 10733, 17386, 14328, 17925, 17925, 13034, 14674, 17506, 12966, 19099, 14346, 11735, 11735, 16831, 14688, 18204, 18204, 10404, 10652, 13166, 18485, 10690, 16549, 11042, 18560, 15294, 16965]

w\_j------------ [12.0, 12.4, 14.0, 16.6, 19.1, 20.0, 21.0, 21.0, 21.3, 21.9, 25.5, 26.1, 27.2, 27.4, 28.2, 28.2, 29.8, 30.9, 31.5, 31.5, 34.1, 35.6, 37.7, 39.2, 42.6, 43.6, 46.0, 46.2, 48.3, 49.5]

h\_j------------ [9.5, 2.7, 4.7, 6.7, 8.5, 9.0, 8.9, 8.9, 6.2, 9.9, 6.8, 2.3, 8.6, 2.0, 3.9, 3.9, 9.8, 9.1, 4.6, 4.6, 6.8, 9.9, 9.5, 4.6, 5.0, 8.7, 4.4, 6.4, 6.3, 3.8]

e\_j------------ [45.2, 38.9, 67.1, 36.6, 63.3, 31.1, 38.2, 38.2, 70.6, 69.1, 32.7, 54.3, 24.0, 77.4, 76.0, 76.0, 32.9, 27.9, 63.7, 63.7, 67.4, 22.2, 37.4, 76.8, 46.4, 29.9, 76.9, 67.4, 23.3, 58.8]

f\_j------------ [149.6, 64.4, 110.2, 117.6, 70.5, 61.6, 128.4, 128.4, 83.6, 105.8, 116.3, 139.6, 149.3, 59.8, 100.2, 100.2, 71.0, 97.9, 110.0, 110.0, 67.3, 67.4, 138.5, 119.1, 121.7, 60.6, 96.5, 95.4, 146.1, 139.0]

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q\_j------------ [16984, 16086, 10108, 10110, 19961, 12216, 14471, 15478, 19127, 17483, 17749, 15876, 16836, 17120, 17290, 11264, 11264, 19352, 13066, 13591, 16094, 15901, 18940, 11842, 10524, 17907, 10038, 15704, 15915, 16851]

w\_j------------ [10.0, 10.2, 12.7, 13.6, 14.6, 14.7, 16.0, 16.7, 19.6, 20.9, 21.0, 21.4, 22.6, 22.9, 24.8, 26.3, 26.3, 27.2, 28.7, 29.9, 32.6, 34.6, 35.3, 38.5, 39.3, 41.8, 42.6, 43.4, 47.5, 48.6]

h\_j------------ [3.4, 2.3, 7.0, 3.7, 8.1, 4.0, 9.7, 4.8, 3.3, 3.6, 5.4, 2.1, 8.1, 4.8, 8.0, 2.8, 2.8, 10.0, 8.6, 7.1, 8.6, 6.5, 2.0, 8.8, 7.6, 9.0, 6.7, 6.3, 5.4, 3.1]

e\_j------------ [64.6, 52.4, 60.5, 59.0, 48.9, 57.0, 55.3, 39.8, 40.8, 46.1, 76.4, 66.9, 38.1, 65.7, 30.2, 70.0, 70.0, 79.0, 52.4, 29.8, 64.1, 58.4, 39.2, 72.0, 44.8, 28.9, 69.5, 43.9, 75.0, 27.9]

f\_j------------ [111.2, 133.7, 129.5, 77.0, 147.2, 139.1, 104.3, 122.8, 50.6, 136.5, 126.7, 69.6, 51.7, 141.6, 128.3, 98.7, 98.7, 88.7, 144.0, 133.4, 146.7, 143.8, 134.7, 66.4, 62.0, 87.8, 60.3, 59.3, 86.8, 79.5]

J=30 s3

（1）

q\_j------------ [15931, 15082, 15810, 11732, 14719, 18223, 18468, 14971, 16637, 12177, 11134, 16130, 14863, 14863, 19821, 10853, 12189, 11866, 18664, 10634, 12068, 10873, 14286, 12135, 11301, 13896, 16211, 18681, 19657, 12548]

w\_j------------ [10.6, 11.1, 13.6, 14.8, 15.2, 16.2, 17.4, 17.5, 17.6, 18.5, 18.7, 29.3, 31.3, 31.3, 31.5, 32.5, 33.9, 35.5, 35.8, 36.7, 36.8, 37.0, 39.5, 43.9, 44.9, 47.5, 47.6, 47.9, 49.1, 49.6]

h\_j------------ [5.3, 9.4, 6.6, 9.1, 4.2, 6.6, 6.2, 4.9, 7.1, 4.0, 5.5, 9.4, 8.4, 8.4, 5.4, 7.1, 6.5, 2.0, 9.2, 7.7, 7.8, 7.9, 4.6, 2.8, 2.4, 6.2, 2.6, 6.2, 8.3, 2.7]

e\_j------------ [35.4, 67.2, 71.1, 64.9, 48.5, 57.3, 55.4, 32.1, 36.4, 35.9, 36.6, 45.6, 73.9, 73.9, 41.1, 35.1, 44.0, 69.5, 50.5, 64.5, 48.7, 56.9, 76.1, 26.7, 79.6, 27.6, 76.8, 52.5, 68.2, 24.6]

f\_j------------ [121.1, 125.7, 94.3, 93.0, 96.1, 69.5, 84.9, 110.9, 89.3, 117.6, 104.5, 87.4, 71.7, 71.7, 113.5, 133.7, 128.3, 53.0, 115.6, 141.9, 126.1, 98.6, 134.5, 122.9, 80.2, 65.0, 81.0, 100.9, 66.6, 95.6]

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q\_j------------ [16931, 15825, 12764, 19638, 10429, 18732, 11016, 18170, 17832, 14415, 18949, 17221, 10411, 12820, 16289, 11028, 13238, 11174, 11649, 14267, 17153, 12549, 18934, 15950, 14112, 19095, 19154, 18944, 16167, 10496]

w\_j------------ [10.5, 11.7, 13.0, 14.0, 14.4, 14.8, 17.5, 18.8, 19.3, 19.5, 21.5, 24.6, 25.1, 25.8, 26.3, 27.0, 27.6, 27.9, 30.1, 31.6, 34.6, 36.0, 36.8, 36.9, 37.1, 40.1, 42.4, 45.8, 46.4, 49.6]

h\_j------------ [8.0, 3.9, 5.7, 3.7, 4.0, 6.7, 9.1, 5.1, 2.7, 8.9, 6.4, 9.1, 4.4, 8.6, 3.2, 8.2, 2.4, 6.8, 8.1, 2.7, 2.7, 8.0, 2.3, 6.7, 6.9, 5.3, 4.2, 5.3, 2.4, 5.2]

e\_j------------ [73.5, 25.2, 45.7, 78.2, 63.5, 23.7, 44.9, 65.9, 29.9, 72.6, 66.6, 49.0, 75.2, 39.0, 51.4, 59.6, 54.8, 50.9, 40.7, 22.9, 21.3, 47.4, 28.4, 23.7, 25.6, 67.2, 64.1, 43.5, 37.4, 36.4]

f\_j------------ [100.0, 95.7, 140.5, 131.4, 57.1, 131.7, 91.0, 61.7, 64.4, 96.2, 140.0, 139.2, 108.8, 65.8, 137.2, 72.5, 123.3, 135.8, 65.3, 107.7, 102.5, 63.7, 50.2, 148.0, 79.1, 116.8, 70.2, 112.7, 79.6, 64.1]

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q\_j------------ [11441, 11589, 14418, 13346, 10443, 19083, 13198, 13198, 13956, 17257, 15111, 16707, 18693, 14078, 14078, 17578, 16767, 19564, 10021, 11166, 12479, 12479, 13634, 12871, 18398, 17612, 11298, 15674, 12561, 17670]

w\_j------------ [10.4, 10.7, 11.3, 16.1, 16.9, 19.4, 19.7, 19.7, 20.7, 22.1, 22.2, 24.2, 25.1, 26.1, 26.1, 27.2, 27.4, 28.0, 28.4, 28.8, 29.5, 29.5, 29.6, 30.8, 31.6, 33.2, 41.4, 41.9, 42.2, 45.5]

h\_j------------ [2.7, 8.7, 8.5, 9.6, 9.0, 7.6, 6.6, 6.6, 2.9, 4.4, 3.3, 9.0, 8.9, 6.1, 6.1, 2.8, 5.7, 6.4, 9.6, 6.3, 4.7, 4.7, 8.6, 6.2, 2.7, 7.5, 9.7, 4.2, 5.7, 8.6]

e\_j------------ [57.2, 21.5, 57.5, 63.3, 62.0, 51.6, 33.8, 33.8, 58.3, 66.4, 37.8, 37.9, 50.4, 48.2, 48.2, 63.9, 61.6, 71.2, 28.9, 71.0, 39.8, 39.8, 68.9, 73.4, 43.7, 64.6, 60.6, 57.8, 32.8, 51.4]

f\_j------------ [112.4, 61.5, 136.1, 148.0, 104.8, 62.0, 90.2, 90.2, 139.6, 148.2, 113.6, 137.4, 53.8, 115.8, 115.8, 62.1, 57.7, 145.5, 77.9, 72.0, 92.0, 92.0, 86.1, 129.1, 149.0, 79.3, 125.2, 76.9, 59.2, 57.2]

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q\_j------------ [18218, 16478, 15824, 12355, 13723, 11201, 12637, 14789, 14075, 17013, 13251, 13512, 15231, 15525, 15719, 18383, 18876, 11085, 11674, 14158, 14158, 12561, 19451, 18935, 18937, 11740, 11184, 13054, 15678, 14466]

w\_j------------ [10.1, 10.5, 11.6, 14.5, 14.6, 15.5, 17.7, 18.0, 20.5, 21.6, 21.9, 24.4, 25.8, 28.8, 29.5, 29.6, 30.3, 33.1, 34.6, 38.4, 38.4, 38.8, 39.0, 39.6, 40.1, 47.1, 47.9, 48.7, 49.4, 49.6]

h\_j------------ [3.2, 2.0, 9.3, 9.8, 8.4, 9.6, 9.4, 5.4, 7.6, 7.9, 4.0, 8.6, 3.9, 7.0, 2.1, 9.0, 2.8, 3.7, 5.0, 8.5, 8.5, 9.4, 7.3, 5.9, 8.8, 7.4, 4.3, 9.4, 6.8, 2.2]

e\_j------------ [38.7, 41.7, 48.8, 57.1, 22.7, 77.4, 75.2, 52.5, 74.0, 39.9, 68.0, 25.9, 54.7, 79.2, 55.2, 61.8, 55.7, 35.7, 42.6, 61.5, 61.5, 49.8, 26.3, 25.5, 52.3, 79.2, 44.2, 42.8, 29.7, 77.0]

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q\_j------------ [10912, 11276, 14838, 11038, 18762, 15756, 10016, 17725, 17854, 14569, 12428, 18324, 12182, 17776, 13344, 13258, 11689, 10322, 14743, 15113, 12043, 15812, 11857, 16934, 16023, 11380, 11526, 16801, 14452, 14677]

w\_j------------ [10.4, 10.6, 11.1, 12.1, 12.5, 15.1, 15.5, 15.9, 19.1, 20.1, 20.8, 27.2, 27.4, 28.7, 30.1, 31.1, 31.4, 32.9, 33.9, 36.6, 38.1, 39.1, 39.7, 40.0, 41.8, 42.0, 44.0, 46.9, 47.6, 48.7]

h\_j------------ [7.8, 3.5, 5.3, 6.6, 2.9, 4.6, 6.7, 3.6, 6.0, 3.0, 2.3, 7.6, 9.5, 6.3, 8.7, 9.2, 6.0, 2.9, 8.2, 9.2, 7.5, 7.5, 7.9, 8.4, 6.6, 3.5, 5.4, 2.4, 9.9, 2.2]

e\_j------------ [46.4, 28.5, 63.1, 40.0, 27.9, 66.6, 35.3, 59.9, 32.9, 49.3, 61.4, 64.4, 56.9, 40.1, 57.9, 66.1, 29.1, 20.9, 79.6, 30.4, 64.1, 67.9, 27.8, 68.5, 49.1, 52.0, 69.5, 58.1, 44.4, 22.1]

f\_j------------ [133.2, 74.3, 78.8, 71.4, 54.1, 69.5, 72.8, 135.5, 73.4, 118.7, 101.0, 57.9, 64.2, 97.7, 124.9, 88.5, 94.4, 101.0, 145.4, 85.1, 136.5, 62.3, 77.6, 91.1, 118.7, 97.1, 95.9, 87.2, 86.5, 139.0]

J=40 s1

(1)

q\_j------------ [13015, 18577, 16111, 10598, 16150, 16150, 17606, 12539, 11361, 11271, 19672, 17715, 15205, 18338, 19808, 14139, 19851, 17079, 15633, 18633, 15064, 19594, 11513, 11567, 12480, 16592, 11814, 14789, 18347, 17519, 17799, 12129, 14009, 17641, 11109, 13590, 15075, 11061, 12086, 16087]

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e\_j------------ [28.2, 61.8, 37.4, 26.1, 48.1, 48.1, 63.3, 59.7, 22.2, 56.0, 29.6, 56.4, 29.9, 65.3, 37.1, 35.8, 40.5, 62.5, 51.0, 61.2, 26.7, 68.6, 35.7, 38.0, 27.0, 46.1, 59.1, 59.0, 47.2, 74.0, 47.6, 70.6, 36.6, 29.3, 40.4, 48.1, 64.0, 40.6, 47.8, 42.4]

f\_j------------ [75.7, 95.1, 81.0, 91.7, 113.4, 113.4, 99.7, 79.8, 118.1, 117.5, 131.0, 132.9, 93.0, 103.5, 64.7, 131.0, 93.5, 117.6, 109.2, 72.6, 139.9, 88.8, 146.0, 110.2, 109.3, 125.6, 79.2, 61.0, 86.4, 137.4, 108.0, 140.7, 91.8, 133.5, 107.2, 119.7, 89.8, 113.3, 80.1, 51.4]

(2)

q\_j------------ [15790, 15790, 18586, 11530, 12108, 10508, 11708, 13788, 17364, 11415, 15166, 19607, 11446, 15247, 18812, 14948, 14113, 18563, 18273, 18273, 16504, 16367, 19930, 16853, 14699, 11673, 15457, 15590, 11576, 18180, 12605, 14048, 19579, 16293, 11044, 14281, 14187, 19003, 11191, 11812]

w\_j------------ [11.6, 11.6, 12.3, 12.5, 12.6, 13.0, 15.1, 21.0, 22.4, 22.8, 23.7, 24.0, 24.1, 25.0, 25.2, 27.0, 27.6, 27.9, 28.9, 28.9, 29.3, 29.7, 31.6, 32.1, 32.5, 32.7, 32.8, 33.2, 33.5, 35.1, 36.3, 38.3, 39.1, 41.1, 42.1, 43.3, 43.4, 44.9, 45.4, 46.3]

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f\_j------------ [77.5, 77.5, 142.9, 146.8, 74.9, 144.2, 128.9, 141.4, 54.9, 72.4, 73.4, 139.1, 51.6, 136.6, 83.6, 84.5, 140.5, 101.2, 78.6, 78.6, 75.4, 123.0, 112.2, 86.1, 127.3, 113.0, 149.8, 77.5, 125.2, 141.7, 131.9, 129.3, 120.3, 126.9, 110.1, 61.9, 121.5, 98.6, 114.5, 72.7]

(3)

q\_j------------ [15670, 19483, 17838, 15717, 18035, 11690, 15174, 17570, 15920, 14917, 16676, 16676, 10732, 19229, 15654, 12277, 17298, 18788, 16891, 18265, 15109, 10560, 14379, 15153, 13291, 19609, 18851, 13584, 11311, 11936, 12358, 11472, 12027, 17746, 17815, 11840, 18621, 12199, 12965, 10302]

w\_j------------ [10.2, 10.6, 10.7, 10.8, 11.8, 12.0, 13.2, 15.7, 16.0, 16.1, 18.2, 18.2, 18.5, 18.7, 20.5, 21.0, 21.4, 22.9, 23.0, 24.3, 26.5, 28.3, 29.2, 29.3, 31.5, 32.5, 34.7, 34.8, 35.0, 35.8, 38.5, 44.1, 44.6, 46.6, 47.1, 47.7, 48.3, 48.8, 49.7, 49.8]

h\_j------------ [3.6, 7.9, 8.1, 7.4, 5.3, 2.2, 6.6, 5.6, 8.0, 2.5, 7.7, 7.7, 8.7, 5.5, 6.2, 7.9, 5.2, 7.2, 5.0, 7.8, 4.4, 6.6, 5.2, 7.4, 2.3, 6.8, 2.8, 8.1, 2.1, 4.4, 7.2, 9.5, 3.7, 6.4, 3.2, 8.5, 8.6, 2.9, 5.5, 8.2]

e\_j------------ [75.9, 39.7, 36.9, 78.4, 38.7, 22.9, 79.2, 49.6, 62.5, 60.8, 66.4, 66.4, 63.9, 73.7, 35.6, 28.7, 66.4, 30.5, 59.6, 44.5, 51.0, 53.0, 59.0, 45.8, 77.8, 43.8, 54.0, 76.5, 29.6, 26.4, 77.8, 52.1, 76.1, 52.9, 48.3, 21.2, 25.4, 62.7, 45.2, 62.1]

f\_j------------ [148.0, 122.0, 75.3, 141.0, 99.3, 126.3, 104.8, 62.8, 109.6, 118.4, 127.7, 127.7, 142.5, 76.7, 64.3, 99.2, 87.3, 69.0, 97.0, 114.7, 122.4, 115.2, 115.6, 106.1, 115.2, 70.8, 116.3, 81.7, 68.3, 102.0, 107.1, 98.3, 79.5, 68.3, 92.2, 57.2, 141.8, 137.4, 69.5, 56.3]

(4)

q\_j------------ [12439, 15747, 14785, 12084, 18386, 17601, 18195, 10826, 12151, 18326, 13859, 18350, 14421, 13453, 19346, 14951, 14951, 17229, 18355, 15970, 12159, 19751, 19683, 19715, 14920, 17484, 15662, 18298, 16401, 19830, 19830, 18732, 13455, 10667, 12127, 14912, 14175, 10317, 14359, 19786]

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f\_j------------ [74.0, 99.2, 60.5, 63.0, 77.4, 76.6, 107.0, 143.0, 131.8, 82.8, 69.1, 136.0, 75.9, 135.4, 72.8, 127.9, 127.9, 87.3, 68.1, 76.6, 134.1, 78.1, 62.2, 89.6, 117.6, 59.4, 71.0, 57.7, 60.2, 88.7, 88.7, 146.4, 70.2, 127.7, 100.9, 111.6, 121.9, 132.0, 98.8, 59.2]

(5)

q\_j------------ [10001, 11160, 18900, 15143, 11127, 17747, 11953, 11776, 15809, 14246, 16483, 15848, 14508, 10005, 19169, 11199, 11771, 10087, 11719, 13278, 12258, 18017, 15023, 15325, 19677, 19677, 17665, 12189, 19157, 17577, 19268, 17973, 13270, 12979, 13318, 12202, 19641, 13395, 10169, 10722]

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h\_j------------ [4.6, 5.8, 3.3, 3.5, 4.8, 4.6, 4.9, 7.5, 2.4, 6.3, 3.1, 4.3, 6.0, 9.0, 6.2, 8.3, 6.5, 7.3, 2.5, 8.5, 9.1, 2.8, 5.8, 3.3, 5.9, 5.9, 9.7, 8.5, 2.5, 2.1, 5.9, 8.7, 6.5, 2.0, 5.0, 5.7, 6.4, 2.7, 5.0, 4.7]

e\_j------------ [37.4, 63.5, 61.5, 54.7, 73.4, 27.0, 32.2, 65.8, 36.9, 45.5, 62.4, 65.7, 46.9, 42.3, 60.4, 29.1, 27.4, 74.4, 47.2, 77.1, 42.9, 78.8, 40.5, 44.5, 58.7, 58.7, 51.5, 69.8, 34.5, 53.6, 43.9, 30.9, 47.6, 66.1, 44.3, 33.0, 33.7, 63.2, 60.2, 54.1]

f\_j------------ [55.4, 135.7, 140.4, 75.0, 53.9, 72.3, 121.7, 144.2, 115.0, 133.1, 130.4, 129.9, 140.9, 51.6, 131.6, 129.6, 124.3, 74.4, 92.2, 104.9, 70.8, 135.2, 95.4, 122.8, 108.0, 108.0, 60.3, 121.9, 65.7, 101.2, 67.8, 98.9, 120.5, 148.5, 77.4, 141.0, 141.8, 71.8, 83.8, 55.8]

J=40 s2

(1)

q\_j------------ [13296, 19687, 19858, 16678, 11383, 15086, 17112, 12570, 10828, 18421, 10554, 19661, 19102, 16053, 19025, 15648, 11383, 16831, 16993, 14956, 14956, 10004, 14536, 14536, 10474, 10474, 16792, 19984, 16921, 12288, 15220, 17691, 10521, 19618, 19618, 15599, 17685, 10468, 14517, 19058]

w\_j------------ [10.6, 10.8, 10.9, 11.3, 13.0, 13.7, 13.8, 16.8, 20.0, 22.2, 24.0, 24.4, 25.4, 25.5, 25.8, 26.5, 27.2, 28.7, 29.9, 31.4, 31.4, 33.9, 34.1, 34.1, 37.0, 37.0, 37.5, 38.9, 39.0, 39.4, 41.1, 41.5, 41.9, 42.7, 42.7, 43.8, 44.4, 45.6, 45.7, 47.7]

h\_j------------ [3.3, 8.4, 4.9, 8.5, 9.3, 5.4, 2.5, 5.1, 9.7, 5.4, 4.2, 4.0, 2.3, 3.0, 5.2, 6.1, 8.1, 8.1, 6.1, 6.8, 6.8, 9.4, 2.0, 2.0, 8.5, 8.5, 5.9, 4.1, 7.2, 2.9, 9.6, 6.3, 9.9, 7.4, 7.4, 6.3, 7.7, 6.7, 2.3, 7.5]

e\_j------------ [43.7, 74.7, 71.0, 57.8, 48.4, 63.7, 75.7, 44.4, 69.6, 64.2, 33.7, 77.7, 43.7, 50.2, 35.6, 38.3, 26.6, 32.9, 70.4, 38.5, 38.5, 51.5, 30.6, 30.6, 46.7, 46.7, 59.9, 49.2, 64.5, 76.7, 49.3, 59.2, 20.7, 22.7, 22.7, 22.3, 68.9, 41.2, 71.9, 30.3]

f\_j------------ [122.4, 68.1, 80.1, 139.8, 139.9, 92.5, 108.1, 134.1, 96.6, 78.6, 118.2, 95.8, 101.3, 54.8, 126.0, 56.8, 63.0, 133.5, 86.0, 50.7, 50.7, 120.6, 129.4, 129.4, 122.4, 122.4, 134.2, 75.9, 133.0, 148.6, 88.9, 90.7, 51.2, 105.3, 105.3, 145.5, 98.4, 146.2, 64.0, 67.4]

(2)

q\_j------------ [17302, 14615, 11630, 17138, 12890, 12177, 19021, 10087, 14080, 17767, 16438, 18204, 18762, 19117, 18669, 10300, 14926, 14954, 13230, 14734, 12216, 13371, 15464, 16563, 14812, 12714, 12721, 18437, 10365, 17903, 14072, 16031, 10962, 17968, 10098, 18902, 15523, 12005, 16689, 18769]

w\_j------------ [11.3, 11.4, 14.9, 15.3, 15.4, 16.6, 17.3, 17.4, 17.8, 18.9, 20.0, 22.8, 23.3, 24.9, 25.2, 25.8, 26.1, 28.6, 29.1, 29.4, 29.6, 32.4, 34.8, 35.6, 35.8, 36.3, 36.6, 36.8, 37.2, 37.5, 39.8, 41.3, 41.8, 41.9, 42.6, 43.2, 47.6, 48.8, 49.4, 49.6]

h\_j------------ [3.5, 9.5, 6.7, 3.5, 7.6, 2.6, 6.2, 6.1, 6.8, 9.4, 4.7, 7.2, 7.7, 7.1, 2.3, 5.6, 9.8, 8.1, 5.5, 3.1, 9.0, 8.0, 5.8, 3.5, 6.0, 6.4, 3.6, 4.6, 5.3, 7.2, 8.1, 3.0, 3.1, 4.9, 10.0, 6.4, 2.6, 5.5, 3.0, 8.5]

e\_j------------ [78.4, 48.0, 59.3, 41.5, 76.7, 38.6, 28.5, 75.9, 45.0, 54.9, 79.2, 72.9, 55.0, 64.4, 46.6, 68.0, 78.4, 64.1, 60.5, 64.5, 76.0, 63.4, 61.3, 26.5, 60.7, 56.2, 59.0, 24.5, 57.5, 52.4, 33.5, 52.4, 66.4, 67.0, 22.6, 79.8, 26.1, 68.3, 56.1, 28.0]

f\_j------------ [77.8, 107.2, 139.8, 50.4, 147.7, 67.7, 137.3, 67.9, 125.0, 110.9, 52.0, 75.0, 82.9, 56.8, 78.7, 78.9, 103.9, 103.8, 103.6, 68.1, 119.0, 82.9, 55.4, 71.8, 103.2, 109.4, 57.4, 58.3, 109.3, 56.2, 50.8, 61.5, 58.3, 120.6, 78.1, 119.2, 86.8, 62.3, 130.7, 137.3]

(3)

q\_j------------ [10345, 16435, 16873, 19486, 13381, 18908, 13178, 17042, 19762, 13731, 18493, 18703, 19632, 14948, 11799, 18908, 18308, 17536, 15243, 15572, 18565, 11168, 13284, 11492, 17310, 11911, 19335, 10976, 11921, 16134, 19717, 12908, 11863, 11863, 17361, 10228, 16160, 10609, 18244, 18240]

w\_j------------ [11.1, 11.7, 13.1, 13.9, 14.1, 14.8, 15.2, 15.6, 16.6, 17.6, 20.5, 21.1, 21.6, 22.3, 22.4, 29.8, 31.2, 31.5, 31.8, 33.3, 34.0, 34.9, 35.0, 36.2, 36.7, 37.5, 37.8, 39.1, 39.3, 39.6, 40.1, 41.8, 42.4, 42.4, 42.9, 43.0, 44.6, 45.7, 48.1, 50.0]

h\_j------------ [4.7, 5.8, 8.6, 3.7, 9.1, 4.2, 7.9, 5.0, 6.9, 7.7, 5.5, 8.3, 7.9, 2.6, 8.0, 2.3, 6.3, 3.2, 3.8, 2.1, 9.9, 2.0, 6.3, 5.6, 5.0, 4.7, 5.7, 6.4, 4.0, 9.7, 2.5, 8.8, 7.0, 7.0, 5.3, 3.1, 9.7, 5.9, 9.0, 6.0]

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f\_j------------ [105.1, 102.9, 52.3, 132.8, 64.2, 137.3, 106.2, 94.2, 58.0, 57.6, 128.2, 92.4, 59.7, 69.0, 62.5, 58.6, 133.0, 126.3, 65.4, 60.9, 110.5, 142.0, 130.8, 51.8, 66.2, 144.1, 117.7, 112.2, 127.8, 113.4, 96.8, 116.6, 66.4, 66.4, 90.7, 67.2, 129.8, 134.8, 74.9, 78.8]

(4)

q\_j------------ [19278, 17380, 19024, 14370, 13763, 12680, 14860, 16144, 10609, 10643, 10643, 13101, 17000, 15128, 16700, 12697, 19638, 19638, 19818, 10959, 16400, 16548, 16281, 10430, 16750, 13407, 10437, 15460, 15231, 11766, 10407, 11302, 11513, 15651, 18759, 16374, 15220, 18842, 11750, 12649]

w\_j------------ [10.4, 11.4, 12.6, 12.8, 14.5, 15.0, 15.4, 16.2, 16.3, 18.1, 18.1, 19.4, 20.5, 20.9, 22.6, 22.8, 24.0, 24.0, 25.5, 27.0, 29.7, 29.8, 31.4, 32.1, 33.2, 33.6, 34.2, 34.5, 38.2, 38.4, 40.0, 40.5, 45.5, 45.9, 46.8, 47.0, 47.1, 48.4, 48.5, 49.1]

h\_j------------ [6.7, 4.0, 4.5, 4.3, 3.9, 7.4, 2.2, 8.4, 7.7, 6.3, 6.3, 7.3, 3.0, 4.5, 4.0, 3.4, 2.4, 2.4, 9.5, 3.8, 5.0, 4.3, 9.6, 5.1, 6.2, 3.4, 9.8, 4.0, 5.8, 5.5, 9.0, 7.2, 7.7, 6.9, 9.8, 7.8, 6.6, 3.3, 3.8, 4.8]

e\_j------------ [75.8, 79.7, 29.9, 63.6, 47.7, 36.8, 68.3, 20.2, 60.4, 41.3, 41.3, 54.5, 79.7, 45.4, 50.2, 77.3, 68.8, 68.8, 66.8, 25.8, 69.0, 60.4, 73.6, 45.5, 74.0, 62.9, 21.6, 56.3, 70.3, 49.6, 46.3, 66.5, 43.3, 40.1, 36.6, 60.3, 38.1, 63.4, 55.1, 24.2]

f\_j------------ [82.0, 58.1, 70.3, 84.5, 71.5, 129.5, 117.8, 147.9, 97.4, 118.1, 118.1, 51.5, 121.5, 78.9, 66.9, 82.1, 80.3, 80.3, 75.7, 96.9, 102.7, 79.7, 115.8, 111.3, 119.2, 126.1, 87.9, 89.6, 100.4, 56.5, 61.2, 98.2, 69.7, 107.5, 138.3, 97.9, 98.2, 145.6, 148.2, 66.0]

(5)

q\_j------------ [10795, 18472, 14798, 17708, 17205, 17384, 15044, 12154, 14965, 19473, 12371, 11228, 14019, 19321, 15810, 18092, 15414, 19738, 12313, 17600, 11491, 17028, 16139, 17390, 17871, 12821, 17003, 17003, 10552, 16128, 14107, 10974, 18589, 17231, 16779, 14229, 11583, 18116, 15214, 16253]

w\_j------------ [10.3, 11.0, 11.4, 12.4, 13.2, 15.4, 16.1, 16.8, 17.0, 18.4, 19.1, 20.2, 21.6, 21.9, 22.3, 23.2, 24.1, 24.7, 25.0, 25.3, 25.4, 26.6, 27.5, 27.8, 29.8, 30.7, 31.0, 31.0, 33.9, 34.8, 35.6, 36.2, 37.0, 38.6, 39.6, 41.7, 43.4, 43.7, 45.3, 46.0]

h\_j------------ [3.6, 9.2, 4.5, 2.4, 3.2, 6.6, 5.2, 9.4, 5.7, 7.1, 9.1, 5.0, 6.8, 8.9, 4.6, 2.3, 5.3, 8.4, 8.9, 4.8, 6.3, 4.9, 8.4, 7.7, 4.4, 4.4, 5.9, 5.9, 9.7, 3.5, 9.3, 4.9, 3.6, 6.9, 4.1, 6.6, 8.6, 3.0, 6.9, 3.8]

e\_j------------ [22.5, 53.4, 39.9, 54.1, 43.5, 79.8, 62.0, 74.9, 64.6, 32.3, 66.5, 72.9, 28.6, 78.4, 73.8, 42.4, 69.7, 70.9, 40.7, 49.6, 63.5, 72.3, 74.9, 78.4, 56.9, 26.2, 68.9, 68.9, 35.7, 59.9, 77.7, 37.7, 59.0, 42.3, 30.6, 61.5, 72.9, 68.2, 66.1, 75.2]

f\_j------------ [52.6, 139.4, 138.2, 97.0, 64.9, 125.6, 144.0, 124.7, 97.5, 56.5, 136.1, 143.6, 141.6, 149.0, 117.3, 126.3, 71.8, 82.1, 74.0, 73.6, 119.3, 145.6, 99.5, 131.8, 54.2, 109.2, 98.7, 98.7, 81.6, 92.5, 59.7, 97.8, 70.7, 77.3, 90.5, 52.8, 116.8, 89.0, 99.2, 59.0]

* J=40 s3

（1）

q\_j------------ [17712, 19300, 14265, 17143, 17763, 19884, 16457, 16457, 16457, 16929, 18746, 12198, 15790, 17625, 18997, 10222, 13068, 13835, 18165, 18934, 11661, 19531, 13147, 13147, 15929, 12430, 10291, 15055, 11408, 10955, 10482, 19932, 14430, 12855, 12830, 15336, 19048, 13795, 14516, 15190]

w\_j------------ [11.1, 11.3, 11.7, 15.1, 16.0, 17.3, 17.7, 17.7, 17.7, 17.8, 19.1, 20.2, 21.1, 21.2, 23.3, 23.4, 23.6, 24.3, 25.7, 25.8, 26.5, 28.0, 31.3, 31.3, 32.6, 33.4, 35.2, 36.3, 36.8, 40.2, 40.5, 41.1, 41.5, 41.6, 42.7, 43.2, 44.2, 48.4, 48.6, 49.9]

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e\_j------------ [30.2, 46.4, 70.9, 78.3, 20.3, 76.6, 44.9, 44.9, 44.9, 42.2, 46.6, 58.9, 31.5, 50.2, 75.3, 36.1, 28.4, 52.1, 27.1, 72.6, 26.8, 60.6, 65.0, 65.0, 56.2, 23.6, 58.9, 68.1, 22.5, 76.7, 32.7, 48.7, 37.5, 30.5, 58.8, 75.4, 20.5, 36.3, 31.7, 43.7]

f\_j------------ [91.3, 95.2, 86.6, 76.5, 82.3, 84.8, 68.2, 68.2, 68.2, 120.1, 127.3, 71.0, 87.9, 102.9, 113.7, 100.3, 148.5, 138.3, 114.4, 96.5, 64.8, 59.4, 128.4, 128.4, 95.8, 149.3, 91.0, 64.4, 136.1, 59.2, 105.7, 108.6, 138.2, 144.6, 110.7, 146.1, 94.6, 111.3, 147.7, 105.9]

（2）

q\_j------------ [10901, 17661, 15306, 19497, 12298, 13876, 16165, 10442, 12297, 14532, 18565, 16754, 14900, 15913, 18259, 10755, 17044, 19301, 19301, 16895, 18415, 17666, 12718, 14418, 10059, 17274, 16971, 11666, 12715, 17385, 16029, 12128, 19662, 15105, 18962, 11501, 17343, 19868, 14207, 16063]

w\_j------------ [12.1, 12.4, 13.4, 14.3, 14.5, 15.8, 16.4, 17.7, 18.3, 19.2, 19.4, 22.0, 23.1, 24.2, 24.3, 26.1, 26.4, 27.2, 27.2, 27.4, 27.8, 28.9, 29.4, 30.5, 30.9, 31.1, 31.4, 32.0, 32.1, 33.8, 37.9, 39.5, 41.0, 44.2, 45.1, 47.1, 47.6, 48.2, 48.9, 49.3]

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e\_j------------ [59.4, 26.8, 64.5, 78.4, 56.5, 32.2, 61.8, 77.9, 66.0, 24.1, 40.2, 60.5, 26.2, 30.0, 67.7, 57.2, 64.1, 72.2, 72.2, 20.8, 59.1, 40.7, 54.0, 48.7, 56.3, 22.9, 64.3, 37.4, 27.2, 44.1, 54.3, 34.5, 61.7, 55.3, 29.7, 30.5, 35.1, 66.2, 27.4, 21.7]

f\_j------------ [127.3, 123.6, 108.4, 58.2, 112.1, 115.0, 112.1, 55.0, 90.8, 74.6, 132.1, 139.3, 96.1, 141.7, 54.1, 81.4, 84.3, 74.2, 74.2, 52.6, 137.3, 75.8, 50.8, 120.8, 59.0, 124.0, 122.3, 112.3, 108.3, 149.4, 116.1, 84.9, 121.6, 132.2, 93.3, 111.3, 66.2, 117.0, 134.9, 65.6]

（3）

q\_j------------ [19237, 15801, 18556, 14982, 10823, 18078, 16447, 13681, 17755, 17755, 12998, 15676, 18755, 16997, 14635, 19718, 10536, 10536, 12956, 19534, 18969, 18696, 16627, 14766, 18403, 15811, 15435, 19386, 12647, 13119, 17106, 14568, 12338, 15631, 10256, 12009, 16420, 10872, 17501, 10559]

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e\_j------------ [57.9, 39.3, 56.8, 58.8, 26.2, 62.2, 60.3, 39.6, 35.9, 35.9, 70.4, 54.4, 21.1, 55.2, 31.4, 52.7, 69.0, 69.0, 46.5, 32.4, 63.2, 66.7, 56.7, 49.5, 64.8, 35.8, 78.7, 25.6, 22.9, 32.1, 74.3, 64.6, 57.5, 37.2, 76.2, 36.5, 39.8, 52.9, 50.2, 25.6]

f\_j------------ [83.4, 138.0, 128.1, 64.9, 143.6, 84.0, 97.6, 138.1, 62.6, 62.6, 63.6, 118.2, 86.3, 107.8, 89.8, 85.0, 144.1, 144.1, 128.5, 137.2, 99.1, 120.8, 111.7, 123.6, 114.8, 94.7, 100.4, 135.5, 138.6, 103.2, 146.1, 123.7, 87.3, 118.9, 75.2, 83.6, 71.5, 78.0, 73.3, 89.7]

（4）

q\_j------------ [13256, 14266, 12855, 17400, 14312, 12963, 14686, 14193, 13049, 18748, 16202, 16916, 14240, 19224, 18870, 12339, 12339, 12212, 14274, 16751, 19540, 17690, 17791, 11914, 15131, 17778, 14725, 16899, 16899, 12550, 10576, 11045, 11775, 16559, 11691, 11156, 10852, 11359, 18027, 19664]

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（5）

q\_j------------ [17005, 15653, 18524, 13520, 10303, 11876, 13834, 17543, 16737, 19070, 13342, 17734, 11413, 13743, 11220, 13941, 11483, 19446, 12875, 15620, 16482, 16715, 16715, 17523, 15622, 10178, 18030, 14756, 19198, 15959, 19040, 19169, 16125, 17011, 19376, 15397, 11709, 13157, 11489, 17727]

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(2)

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(5)

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e\_j------------ [67.6, 39.3, 45.6, 27.2, 55.8, 65.1, 77.1, 34.7, 66.7, 62.9, 23.2, 32.8, 62.9, 47.9, 78.3, 77.9, 50.0, 61.6, 61.6, 40.0, 50.7, 61.9, 42.8, 50.8, 66.1, 49.5, 49.5, 35.3, 41.3, 24.7, 58.4, 28.9, 55.4, 25.1, 20.1, 37.7, 36.5, 23.9, 20.9, 69.3, 71.1, 38.3, 48.7, 34.2, 56.7, 62.1, 66.2, 66.2, 42.3, 51.9]

f\_j------------ [68.8, 116.9, 71.3, 141.6, 64.7, 58.3, 95.5, 52.6, 81.5, 95.3, 56.0, 111.0, 79.9, 68.4, 87.5, 55.1, 67.3, 146.1, 146.1, 146.1, 68.8, 113.0, 108.3, 117.0, 94.8, 68.0, 122.0, 98.0, 85.8, 121.2, 115.3, 122.3, 88.5, 79.7, 51.5, 86.3, 145.2, 116.4, 80.7, 92.2, 95.5, 94.5, 124.4, 132.2, 119.5, 94.6, 148.4, 148.4, 145.8, 117.6]

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h\_j------------ [8.1, 5.6, 6.7, 6.7, 5.9, 6.7, 3.4, 4.1, 7.5, 7.5, 6.0, 4.8, 8.8, 5.5, 8.8, 6.5, 9.9, 3.1, 2.2, 7.9, 8.9, 9.0, 4.0, 6.8, 7.4, 6.1, 2.1, 7.0, 2.9, 6.3, 6.3, 7.4, 8.6, 7.3, 9.1, 5.1, 9.2, 8.3, 3.7, 7.4, 3.7, 7.1, 8.5, 5.3, 7.5, 4.5, 2.3, 6.5, 4.6, 6.8]

e\_j------------ [61.7, 51.5, 53.2, 53.2, 44.3, 21.6, 22.4, 24.3, 76.1, 76.1, 51.4, 58.7, 56.2, 61.9, 36.6, 70.5, 69.5, 38.6, 79.5, 66.0, 32.8, 25.5, 77.5, 57.0, 57.7, 51.1, 46.5, 74.2, 69.8, 68.8, 68.8, 51.6, 77.4, 43.4, 65.8, 79.3, 64.8, 24.8, 75.8, 72.2, 56.7, 65.6, 48.7, 77.3, 53.9, 24.2, 70.1, 61.4, 34.4, 26.7]

f\_j------------ [118.5, 128.2, 77.3, 77.3, 61.2, 61.0, 135.5, 98.8, 64.2, 64.2, 103.1, 129.0, 115.8, 134.2, 116.0, 94.1, 111.6, 127.3, 72.9, 101.6, 106.4, 73.2, 116.0, 83.4, 145.7, 119.4, 138.5, 104.0, 99.5, 95.8, 95.8, 98.1, 101.0, 82.1, 52.7, 50.5, 93.9, 77.0, 120.0, 120.1, 118.2, 59.4, 135.5, 125.3, 103.2, 107.7, 101.8, 74.1, 130.2, 127.0]

(5)

q\_j------------ [15435, 16510, 12789, 17773, 18727, 13852, 13385, 11568, 13736, 14708, 17952, 11284, 12128, 12714, 12714, 16216, 18909, 17098, 14642, 14793, 16634, 17627, 13731, 13863, 16930, 19789, 10651, 18442, 13416, 10349, 15344, 13574, 18558, 13020, 19727, 14904, 13421, 18444, 19060, 11755, 10972, 11935, 17499, 17986, 16053, 14506, 13181, 13063, 19614, 15613]

w\_j------------ [10.0, 10.1, 10.7, 11.1, 11.6, 12.4, 12.9, 13.0, 13.5, 14.7, 15.3, 16.0, 16.5, 17.8, 17.8, 18.3, 19.1, 20.9, 21.7, 22.0, 22.3, 23.4, 26.2, 27.2, 27.4, 27.8, 28.1, 28.4, 29.5, 31.5, 32.1, 32.3, 32.7, 33.0, 34.8, 34.9, 36.7, 39.1, 39.5, 40.3, 41.4, 42.3, 42.4, 44.1, 44.4, 44.6, 45.6, 46.6, 48.1, 49.0]

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e\_j------------ [24.8, 29.3, 39.1, 69.3, 79.7, 40.9, 72.1, 75.6, 78.8, 22.8, 43.2, 24.1, 24.7, 53.9, 53.9, 45.0, 20.4, 37.0, 54.2, 31.4, 63.7, 56.3, 50.0, 20.2, 38.1, 74.9, 34.5, 54.7, 20.0, 46.3, 22.0, 44.3, 28.0, 56.7, 35.3, 56.5, 72.2, 71.9, 47.4, 79.2, 62.9, 65.3, 57.0, 20.3, 29.9, 76.8, 47.3, 77.5, 37.6, 43.5]

f\_j------------ [84.7, 103.5, 103.1, 62.2, 120.5, 56.2, 102.4, 57.3, 86.1, 63.2, 92.3, 137.1, 63.4, 141.6, 141.6, 60.5, 53.0, 95.3, 84.7, 55.4, 143.8, 57.3, 128.9, 61.4, 115.7, 70.4, 105.6, 73.7, 82.5, 94.5, 74.1, 84.4, 111.1, 90.5, 109.9, 110.5, 83.8, 69.6, 95.4, 123.3, 51.7, 135.8, 127.2, 149.8, 51.4, 82.3, 118.2, 143.2, 145.4, 119.5]

J=50 s3

(1)

q\_j------------ [13293, 18839, 11161, 18911, 10841, 15591, 11916, 18309, 17526, 10206, 10183, 12685, 19224, 10987, 11057, 11057, 19693, 12810, 16120, 16120, 15660, 15236, 16242, 10686, 19417, 16690, 14765, 15055, 14097, 13818, 11834, 13285, 15461, 16228, 14897, 11671, 13094, 19478, 15089, 18785, 16875, 10404, 17276, 18809, 11932, 12238, 15489, 14175, 15269, 10758]

w\_j------------ [10.8, 12.0, 12.5, 12.8, 13.2, 15.0, 15.7, 17.7, 21.0, 21.5, 22.0, 22.2, 22.8, 23.0, 23.6, 23.6, 24.6, 25.6, 26.5, 26.5, 26.7, 27.5, 27.6, 28.9, 29.0, 31.3, 32.5, 32.9, 33.1, 34.7, 35.2, 35.3, 36.7, 36.9, 37.2, 37.3, 39.0, 39.6, 39.7, 40.5, 41.7, 42.4, 42.9, 43.8, 46.8, 47.0, 47.3, 48.2, 48.7, 49.9]

h\_j------------ [6.9, 8.2, 2.9, 3.1, 2.0, 5.4, 9.8, 7.6, 6.2, 7.9, 8.5, 3.2, 8.0, 8.9, 8.6, 8.6, 7.4, 4.1, 9.0, 9.0, 8.2, 4.7, 8.8, 9.6, 4.1, 9.5, 9.6, 9.9, 5.4, 8.0, 6.1, 5.3, 7.7, 5.9, 2.8, 3.0, 6.2, 7.4, 2.4, 6.0, 7.1, 4.5, 2.8, 6.8, 6.4, 4.3, 8.7, 5.7, 5.8, 4.7]

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(2)

q\_j------------ [12749, 15571, 15080, 16366, 10375, 17856, 19381, 14370, 11634, 11940, 12039, 19839, 16937, 11380, 16491, 13849, 14931, 13776, 17814, 15932, 15978, 11254, 10986, 16691, 17319, 16596, 17922, 10642, 18830, 15051, 15908, 15908, 11628, 13870, 15676, 18073, 14248, 18676, 11435, 17616, 17439, 16860, 10375, 19122, 14293, 17867, 10563, 17167, 16732, 16381]

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(3)

q\_j------------ [14314, 12642, 12191, 18976, 18976, 10605, 19911, 10122, 10522, 13694, 15997, 18541, 19722, 14359, 10896, 13486, 16326, 18939, 18939, 18939, 13473, 11630, 16197, 15047, 19975, 19140, 14284, 13003, 14393, 18188, 18188, 11787, 10537, 16284, 12503, 16210, 15879, 12415, 14423, 10419, 12389, 18724, 19804, 14124, 14124, 14459, 17725, 11260, 17495, 10265]

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(4)

q\_j------------ [10233, 18214, 12884, 18337, 10003, 11819, 16505, 13219, 12344, 15109, 15109, 16889, 14390, 12799, 10327, 17430, 11738, 18556, 18874, 19037, 13326, 13065, 11052, 12056, 15171, 19336, 11211, 13079, 12839, 17222, 15822, 14496, 10550, 12847, 17032, 19370, 10601, 17787, 18857, 12216, 12120, 19410, 16708, 17629, 10426, 16636, 10066, 14716, 18226, 15671]

w\_j------------ [10.0, 10.6, 10.9, 12.2, 12.5, 14.1, 14.2, 15.0, 15.2, 15.7, 15.7, 16.8, 17.9, 18.4, 20.3, 21.3, 22.6, 23.3, 25.0, 25.1, 25.2, 27.5, 27.6, 29.8, 30.2, 31.4, 31.7, 33.6, 34.4, 35.5, 36.7, 37.0, 37.1, 38.5, 38.9, 40.2, 40.9, 41.7, 41.9, 42.5, 42.7, 42.8, 43.1, 43.4, 43.9, 44.0, 46.8, 47.6, 48.2, 49.3]

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(5)

q\_j------------ [14406, 15561, 15561, 15342, 19935, 15221, 19749, 19728, 18128, 18202, 17474, 11836, 12136, 14329, 14329, 19034, 18259, 11175, 18912, 14915, 10383, 17464, 15751, 10156, 17293, 14539, 16562, 18360, 18928, 19892, 10588, 13526, 19777, 13382, 12841, 14601, 17876, 17876, 18439, 16830, 19664, 10422, 10780, 10057, 10861, 15690, 14967, 14967, 18170, 10208]

w\_j------------ [10.0, 10.2, 10.2, 10.3, 10.5, 11.9, 13.8, 13.9, 15.1, 15.6, 17.5, 17.7, 18.7, 19.3, 19.3, 20.3, 21.6, 22.6, 24.3, 24.6, 25.8, 27.7, 28.3, 30.7, 32.5, 33.3, 34.3, 35.1, 35.3, 35.7, 36.0, 36.3, 36.4, 37.0, 37.2, 37.4, 39.4, 39.4, 40.1, 40.5, 42.4, 42.6, 43.2, 43.5, 43.9, 47.2, 47.4, 47.4, 48.8, 49.6]

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# sensitive analysis on SKU size

- J=5

q\_j------------

[10354, 14588, 10143, 17737, 11849]

w\_j------------

[16.8, 17.5, 20.2, 24.2, 39.6]

h\_j------------

[7.7, 2.5, 4.5, 9.5, 7.1]

e\_j------------

[70.2, 32.6, 54.6, 34.8, 58.9]

f\_j------------

[120.0, 97.4, 125.3, 95.2, 77.4]

q\_j------------

[10453, 13256, 11756, 13189, 13548]

w\_j------------

[16.0, 21.3, 36.6, 40.6, 47.5]

h\_j------------

[8.0, 7.5, 6.1, 5.8, 3.8]

e\_j------------

[25.4, 79.7, 28.2, 72.4, 22.5]

f\_j------------

[137.5, 71.7, 74.1, 139.2, 86.3]

q\_j------------

[16581, 10284, 16464, 16176, 14752]

w\_j------------

[10.1, 22.6, 25.6, 47.6, 49.3]

h\_j------------

[4.0, 2.3, 7.2, 8.3, 9.8]

e\_j------------

[29.9, 68.0, 59.0, 64.4, 24.3]

f\_j------------

[106.8, 138.7, 132.4, 115.4, 147.6]

q\_j------------

[17799, 11595, 16274, 11406, 14205]

w\_j------------

[29.7, 32.6, 37.2, 38.8, 42.2]

h\_j------------

[7.5, 6.3, 2.7, 4.1, 8.4]

e\_j------------

[73.8, 30.9, 78.8, 68.0, 63.1]

f\_j------------

[73.1, 111.2, 136.9, 143.1, 60.3]

q\_j------------

[10238, 11060, 17502, 14292, 18423]

w\_j------------

[14.9, 29.0, 38.8, 47.1, 48.7]

h\_j------------

[7.3, 2.4, 4.1, 6.9, 7.5]

e\_j------------

[53.3, 32.2, 54.1, 63.5, 25.3]

f\_j------------

[134.5, 129.1, 101.0, 54.5, 120.1]

- J=10

q\_j------------

[10540, 18487, 13174, 12101, 18369, 11155, 17978, 16698, 16010, 12415]

w\_j------------

[29.9, 33.6, 35.9, 37.8, 39.0, 47.3, 48.7, 48.9, 57.3, 59.1]

h\_j------------

[7.6, 9.4, 5.0, 5.2, 5.3, 5.6, 10.8, 10.3, 7.7, 6.5]

e\_j------------

[42.2, 75.9, 67.6, 70.4, 20.9, 56.8, 25.4, 59.5, 32.1, 65.5]

f\_j------------

[115.8, 128.2, 100.5, 61.8, 70.0, 60.3, 115.2, 71.7, 98.9, 71.7]

q\_j------------

[16946, 15594, 14865, 10646, 13043, 11903, 10675, 12809, 13439, 14457]

w\_j------------

[22.3, 22.8, 24.7, 26.2, 30.3, 32.1, 34.9, 36.5, 42.1, 46.1]

h\_j------------

[11.5, 11.9, 10.5, 9.3, 4.3, 8.8, 6.8, 8.0, 7.9, 4.1]

e\_j------------

[63.7, 51.9, 21.8, 43.4, 67.4, 55.5, 37.7, 76.3, 42.1, 71.7]

f\_j------------

[112.9, 119.7, 113.4, 141.3, 117.7, 148.2, 124.3, 141.6, 97.0, 90.2]

q\_j------------

[12723, 14131, 15480, 16677, 14910, 14270, 13787, 18378, 14521, 17337]

w\_j------------

[10.8, 15.3, 20.3, 20.6, 23.0, 23.2, 41.0, 44.1, 44.3, 49.3]

h\_j------------

[8.8, 9.7, 8.6, 9.5, 5.5, 9.8, 3.1, 3.2, 3.8, 9.9]

e\_j------------

[75.6, 68.0, 69.5, 43.7, 24.5, 52.2, 51.9, 51.1, 21.9, 36.9]

f\_j------------

[148.3, 128.0, 79.5, 116.5, 86.1, 130.4, 108.5, 131.9, 90.8, 140.9]

q\_j------------

[15391, 19762, 17547, 16014, 13441, 11410, 11065, 15948, 13994, 18178]

w\_j------------

[11.4, 13.5, 14.5, 18.2, 20.0, 23.7, 33.4, 37.5, 41.6, 42.0]

h\_j------------

[2.4, 4.0, 4.8, 7.7, 9.5, 8.3, 6.5, 8.5, 3.0, 3.5]

e\_j------------

[74.2, 54.1, 44.0, 50.4, 76.8, 69.2, 73.8, 51.7, 27.4, 26.3]

f\_j------------

[83.3, 76.4, 62.3, 94.9, 132.3, 86.3, 56.6, 75.7, 135.6, 111.1]

q\_j------------

[16144, 15983, 17374, 19012, 14247, 12865, 11938, 11431, 18965, 12691]

w\_j------------

[12.8, 24.5, 34.0, 34.3, 37.4, 38.8, 39.3, 42.3, 42.4, 46.7]

h\_j------------

[2.8, 2.6, 7.2, 2.8, 9.5, 9.2, 3.0, 4.8, 3.8, 7.9]

e\_j------------

[32.7, 50.9, 76.2, 45.7, 45.2, 25.1, 20.9, 32.5, 52.9, 40.3]

f\_j------------

[51.2, 84.9, 113.3, 72.4, 136.7, 93.8, 83.5, 61.6, 114.0, 119.1]

- J=20

q\_j------------

[14118, 17156, 18226, 17559, 14811, 14615, 12497, 15039, 13360, 18116, 13678, 14692, 12542, 15998, 19299, 19678, 19678, 14784, 11507, 16305]

w\_j------------

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h\_j------------

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e\_j------------

[43.0, 79.7, 63.5, 66.9, 61.0, 44.1, 31.1, 44.9, 68.8, 49.2, 58.2, 49.1, 32.8, 70.7, 75.7, 52.9, 52.9, 59.4, 44.5, 45.8]

f\_j------------

[130.1, 101.0, 103.7, 71.2, 110.8, 108.3, 142.1, 121.3, 86.1, 96.7, 61.3, 132.2, 119.3, 148.4, 125.1, 70.1, 70.1, 126.1, 120.4, 140.6]

q\_j------------

[12719, 18524, 17457, 13595, 14729, 12027, 19455, 17469, 10950, 14872, 18907, 10131, 11324, 14687, 10366, 19503, 10112, 17714, 12012, 15059]

w\_j------------

[10.3, 10.5, 14.3, 15.0, 19.2, 21.3, 21.7, 26.9, 27.3, 32.0, 32.1, 33.2, 34.3, 35.2, 36.3, 38.3, 40.0, 41.4, 44.1, 46.7]

h\_j------------

[4.8, 6.4, 5.2, 5.6, 6.0, 5.3, 4.4, 7.6, 5.2, 5.9, 5.2, 2.2, 5.7, 5.1, 3.1, 9.6, 7.8, 3.9, 5.3, 8.0]

e\_j------------

[79.1, 22.1, 57.6, 20.2, 40.0, 39.1, 73.5, 47.4, 37.1, 69.7, 34.2, 39.0, 71.1, 77.6, 26.1, 78.8, 34.1, 54.2, 77.9, 61.5]

f\_j------------

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q\_j------------

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w\_j------------

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h\_j------------

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q\_j------------

[16624, 19832, 10799, 13743, 15328, 14302, 15014, 12894, 14654, 19256, 11209, 15739, 10004, 16035, 10628, 13350, 12133, 15685, 11370, 18300]

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[13.1, 14.7, 15.7, 16.9, 18.8, 22.2, 22.5, 24.9, 31.2, 32.9, 33.2, 35.1, 35.5, 40.5, 41.0, 41.5, 41.6, 42.7, 48.9, 49.6]

h\_j------------

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e\_j------------

[60.1, 22.4, 62.2, 64.8, 71.1, 37.6, 25.7, 41.2, 31.1, 71.0, 35.2, 53.5, 35.2, 29.2, 54.8, 49.5, 27.7, 72.9, 32.9, 22.0]

f\_j------------

[102.0, 92.4, 102.0, 108.7, 104.4, 77.1, 109.6, 54.1, 126.5, 142.3, 57.7, 127.8, 136.6, 51.0, 95.4, 135.7, 145.6, 77.4, 67.3, 113.1]

q\_j------------

[19297, 14745, 12709, 14287, 16124, 15519, 17539, 17370, 19922, 11481, 11939, 11069, 14184, 18838, 16615, 10496, 10467, 18546, 14293, 10030]

w\_j------------

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h\_j------------

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e\_j------------

[68.7, 49.2, 47.8, 45.8, 62.9, 62.9, 27.0, 20.6, 47.0, 25.4, 21.2, 23.2, 38.6, 67.2, 21.8, 37.6, 52.4, 50.8, 29.9, 40.3]

f\_j------------

[146.3, 113.8, 54.1, 67.7, 83.2, 74.6, 86.5, 58.6, 53.1, 89.6, 143.8, 148.8, 78.0, 61.4, 147.9, 58.6, 144.1, 59.5, 94.0, 139.3]

- J=30

q\_j------------

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w\_j------------

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[56.7, 79.4, 78.4, 87.7, 54.9, 71.3, 71.3, 57.0, 142.6, 142.6, 110.1, 51.1, 124.7, 84.6, 125.4, 70.7, 139.9, 148.5, 96.2, 74.3, 97.2, 101.4, 112.0, 122.4, 75.3, 86.9, 62.3, 51.2, 70.1, 78.8]

q\_j------------

[16226, 17156, 15611, 11379, 15443, 15573, 10281, 18331, 16200, 17372, 18269, 18295, 16419, 12169, 11598, 15618, 17146, 17755, 16881, 16272, 19099, 19579, 14737, 17129, 15070, 15849, 12823, 13579, 19772, 14125]

w\_j------------

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f\_j------------

[77.2, 77.6, 73.0, 116.6, 60.1, 83.1, 79.1, 110.9, 127.7, 87.4, 68.4, 88.3, 62.1, 98.2, 105.0, 89.6, 62.5, 138.5, 144.2, 131.7, 106.3, 91.8, 140.6, 67.1, 70.1, 88.8, 100.8, 86.2, 83.3, 79.8]

q\_j------------

[13041, 19936, 17931, 11860, 14765, 12167, 14983, 14211, 13316, 16326, 15697, 19507, 17280, 10789, 12561, 12625, 15016, 17382, 15264, 19863, 12307, 15589, 15935, 19973, 12204, 11712, 16215, 19868, 11119, 14339]

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h\_j------------

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[39.8, 57.2, 36.2, 22.8, 42.7, 40.6, 44.5, 31.5, 65.1, 44.7, 60.2, 36.7, 25.0, 52.4, 55.4, 44.1, 64.6, 79.2, 22.3, 25.8, 21.1, 33.8, 59.5, 50.6, 74.2, 66.9, 73.7, 42.4, 72.4, 71.5]

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q\_j------------

[12895, 11892, 14327, 15649, 11667, 12300, 11952, 13906, 10931, 17842, 14942, 16382, 18430, 17051, 10258, 13735, 13818, 18514, 19514, 19514, 13499, 13499, 11531, 11143, 11143, 11282, 19911, 17114, 12039, 18204]

w\_j------------

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[3.9, 7.0, 3.1, 5.3, 5.1, 10.0, 9.1, 2.9, 2.4, 4.9, 4.4, 9.0, 3.8, 6.5, 7.9, 7.8, 7.0, 8.8, 6.6, 6.6, 7.4, 7.4, 6.1, 5.7, 5.7, 4.0, 7.3, 2.1, 8.3, 5.9]

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[68.3, 49.3, 77.0, 48.7, 55.2, 50.6, 27.9, 67.4, 77.7, 35.1, 46.8, 34.7, 42.5, 53.3, 25.3, 78.6, 67.0, 37.5, 20.2, 20.2, 22.6, 22.6, 43.1, 46.4, 46.4, 21.1, 67.6, 43.8, 61.7, 22.0]

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[106.7, 129.9, 63.1, 77.9, 119.3, 78.5, 125.1, 149.4, 83.5, 78.3, 122.1, 91.8, 118.4, 91.6, 95.3, 87.0, 105.1, 96.2, 110.7, 110.7, 90.0, 90.0, 52.6, 100.4, 100.4, 58.7, 120.1, 133.4, 133.6, 88.9]

q\_j------------

[12624, 17484, 16680, 15852, 18454, 19320, 14273, 15077, 14144, 11967, 11967, 17304, 10973, 16522, 10385, 14663, 13033, 12830, 14956, 13027, 12054, 15279, 13686, 17440, 14812, 15653, 12690, 12423, 12423, 19547]

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[65.0, 45.3, 62.0, 43.9, 64.7, 25.2, 73.1, 47.1, 34.2, 34.0, 34.0, 70.7, 77.6, 64.4, 43.4, 23.5, 29.6, 47.7, 28.0, 37.4, 31.1, 52.0, 30.9, 70.9, 70.3, 33.6, 67.8, 48.1, 48.1, 26.4]

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[92.9, 84.6, 106.6, 127.1, 143.8, 120.0, 115.4, 51.0, 75.1, 134.5, 134.5, 80.5, 95.7, 112.3, 75.4, 100.1, 124.0, 89.0, 55.1, 120.4, 57.9, 57.9, 123.5, 100.2, 107.6, 100.5, 135.9, 53.8, 53.8, 80.9]

- J=40

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[11744, 17742, 14862, 12665, 19713, 10417, 10570, 16582, 11724, 10573, 12099, 12099, 19224, 17464, 15200, 17063, 11896, 16994, 15084, 16829, 18485, 19140, 11899, 10873, 12151, 13463, 15178, 15753, 15165, 10500, 16171, 15843, 17316, 14765, 17949, 19965, 17341, 16400, 17949, 17615]

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[11.1, 11.2, 11.4, 11.5, 13.6, 15.5, 18.0, 18.5, 19.0, 19.9, 20.1, 20.1, 20.8, 22.3, 23.6, 24.0, 24.1, 25.1, 25.5, 27.1, 27.4, 31.0, 33.1, 33.2, 34.0, 34.6, 36.4, 37.3, 37.8, 38.4, 38.7, 40.1, 40.9, 41.7, 41.9, 42.4, 48.0, 48.3, 49.7, 50.0]

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[7.8, 2.5, 7.1, 8.3, 7.5, 6.7, 7.9, 5.0, 3.7, 8.8, 2.6, 2.6, 4.4, 4.8, 3.5, 2.7, 6.3, 6.6, 8.6, 5.2, 6.1, 9.2, 3.5, 6.6, 8.5, 9.1, 5.2, 2.1, 4.6, 4.9, 2.7, 7.8, 5.3, 7.1, 2.4, 3.7, 8.2, 3.6, 3.2, 7.5]

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[79.5, 105.4, 77.1, 57.7, 62.0, 68.1, 131.6, 64.2, 101.5, 53.7, 103.5, 103.5, 142.8, 66.7, 142.1, 150.0, 98.5, 148.4, 64.7, 141.6, 76.5, 114.1, 101.7, 84.4, 72.7, 55.0, 89.0, 81.8, 65.1, 115.3, 128.0, 55.1, 81.7, 77.4, 69.1, 97.5, 119.6, 101.7, 141.2, 148.8]

q\_j------------

[19335, 19813, 15770, 17753, 13405, 12245, 14006, 17678, 17678, 10467, 16316, 19296, 19715, 11301, 16378, 18759, 10562, 18149, 15342, 12133, 13558, 19991, 10364, 13357, 11748, 16496, 15415, 10752, 16081, 15236, 16646, 10950, 18334, 18321, 13884, 16119, 14037, 15559, 12549, 13219]

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e\_j------------

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q\_j------------

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w\_j------------

[18.4, 23.8, 32.7, 42.0, 45.0]

h\_j------------

[3.0, 3.7, 6.2, 2.9, 7.2]

e\_j------------

[47.2, 68.0, 46.9, 22.5, 62.5]

f\_j------------

[147.6, 81.4, 116.2, 84.9, 112.2]

q\_j------------

[13412, 14777, 18360, 16023, 12565]

w\_j------------

[18.0, 20.0, 20.4, 31.8, 49.3]

h\_j------------

[3.1, 9.7, 2.1, 9.9, 7.4]

e\_j------------

[75.0, 73.9, 27.2, 69.2, 34.0]

f\_j------------

[145.6, 99.4, 135.9, 103.6, 103.7]

- J=10

q\_j------------

[14403, 19559, 12863, 19455, 11749, 15887, 13565, 11248, 14290, 14175]

w\_j------------

[14.1, 19.2, 25.5, 30.1, 31.0, 34.1, 40.3, 43.4, 43.8, 44.3]

h\_j------------

[8.4, 4.1, 4.2, 2.8, 5.8, 4.3, 5.5, 7.4, 9.3, 7.2]

e\_j------------

[22.9, 33.9, 21.1, 59.5, 30.2, 44.0, 28.7, 52.9, 56.7, 23.2]

f\_j------------

[139.3, 79.3, 96.7, 60.1, 95.8, 148.3, 148.3, 109.1, 119.3, 83.4]

q\_j------------

[16363, 16613, 10795, 13583, 13958, 14079, 15384, 17670, 10370, 11955]

w\_j------------

[12.8, 13.8, 16.5, 18.1, 18.8, 29.2, 32.6, 35.3, 40.8, 45.7]

h\_j------------

[6.1, 4.7, 5.3, 9.0, 6.3, 6.1, 3.3, 4.1, 5.9, 4.8]

e\_j------------

[42.4, 77.5, 73.1, 40.0, 79.7, 33.6, 56.3, 79.0, 20.7, 72.1]

f\_j------------

[91.6, 85.0, 93.4, 125.5, 137.4, 124.4, 58.3, 50.5, 102.3, 83.9]

q\_j------------

[12405, 13393, 19411, 15935, 11236, 13871, 15162, 11180, 15103, 16813]

w\_j------------

[10.5, 12.2, 18.8, 23.2, 24.7, 25.3, 38.6, 40.4, 41.1, 47.7]

h\_j------------

[4.5, 7.9, 6.1, 2.7, 7.9, 2.5, 2.2, 9.3, 6.6, 4.7]

e\_j------------

[60.9, 75.2, 38.8, 23.8, 58.6, 21.8, 21.5, 28.1, 20.0, 71.7]

f\_j------------

[72.0, 82.8, 119.1, 72.3, 94.2, 63.0, 84.3, 74.6, 75.3, 96.3]

q\_j------------

[19721, 13523, 11752, 16561, 14486, 17147, 14905, 14475, 14032, 15264]

w\_j------------

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h\_j------------

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e\_j------------

[33.0, 72.1, 28.8, 41.8, 72.8, 71.2, 30.8, 41.9, 24.9, 73.8]

f\_j------------

[134.2, 140.2, 98.7, 96.8, 132.4, 82.6, 73.5, 82.5, 59.6, 110.8]

q\_j------------

[18494, 13465, 12615, 14194, 13472, 13839, 19978, 16961, 12220, 10767]

w\_j------------

[12.9, 15.9, 17.8, 24.6, 25.3, 29.6, 31.9, 37.7, 42.8, 43.2]

h\_j------------

[3.0, 5.0, 6.5, 6.8, 4.7, 4.7, 3.7, 9.0, 6.8, 8.5]

e\_j------------

[44.6, 31.4, 39.8, 39.6, 31.9, 54.3, 24.9, 28.3, 23.2, 27.5]

f\_j------------

[123.7, 75.3, 98.1, 145.5, 59.9, 119.3, 77.1, 102.8, 127.0, 139.3]

- J=20

q\_j------------

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w\_j------------

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h\_j------------

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e\_j------------

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f\_j------------

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q\_j------------

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h\_j------------

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e\_j------------

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w\_j------------

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h\_j------------

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h\_j------------

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q\_j------------

[17532, 17172, 12243, 19013, 10860, 18129, 17327, 12767, 16236, 12801, 17334, 18573, 18571, 15918, 13564, 16693, 19124, 11068, 12873, 16485]

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h\_j------------

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q\_j------------

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