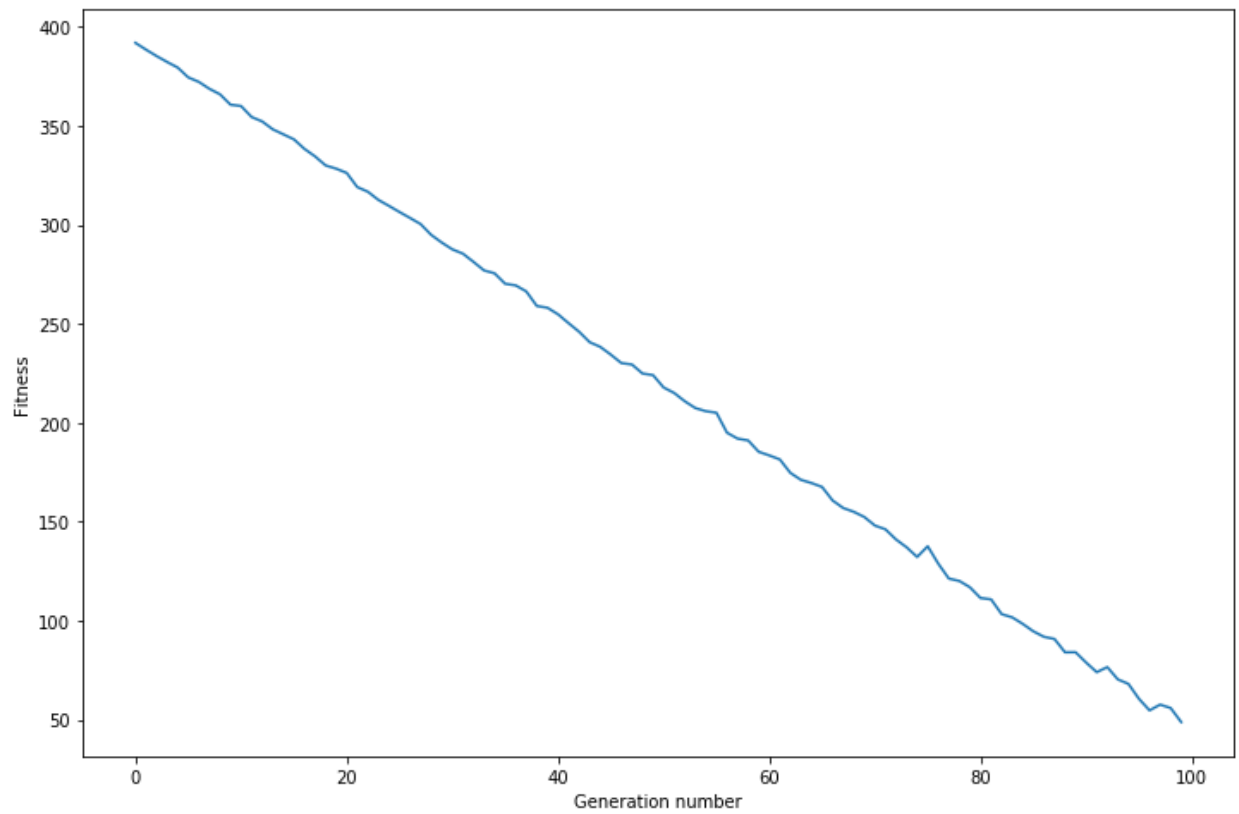
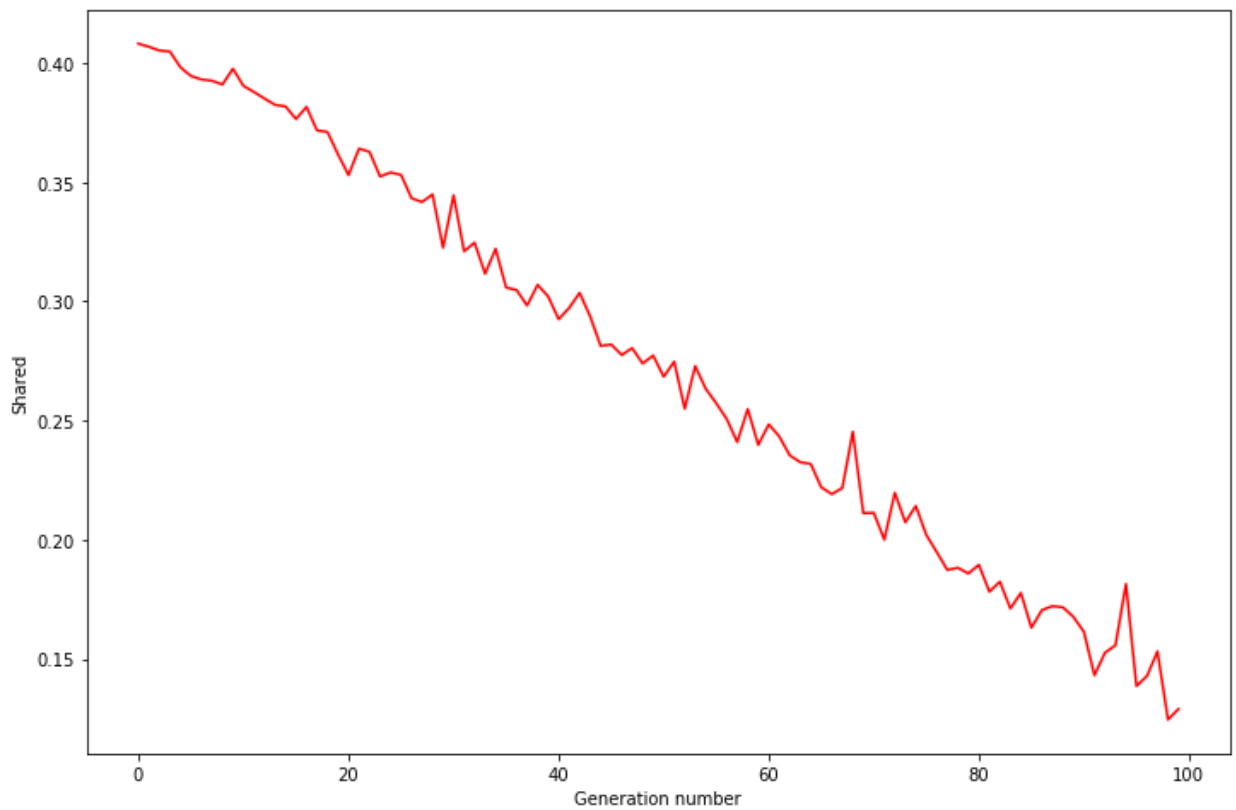


Not-shared fitness depending on generation number:



Shared fitness depending on generation number:



Best fitnesses in beginning, middle and ending of algorithms's work:

	Fitness	Shared Fitness
Beginning	379.246621607	0.409620699299
Middle	47.4058277008	0.226854650544
Ending	3.79246621607	0.136112790327

Pathes of dods (0 is "left", 1 is "up", 2 is "right", 3 is "down". Each path contains 1000 steps):

1)

```
[1 3 2 2 1 2 1 1 2 1 0 1 0 2 1 2 3 1 2 3 0 3 3 1 1 3 0 2 3 1 3 3 0 0 1 2 3
2 2 3 1 1 0 0 1 1 1 2 1 0 3 3 3 2 1 2 2 3 2 0 2 0 3 2 3 0 1 0 3 2 2 0 0 0
1 2 2 1 0 2 2 0 2 3 3 0 1 3 0 0 2 2 0 0 3 3 0 1 3 1 0 3 3 2 1 2 0 3 2 0 1
2 1 2 2 0 0 0 2 2 1 3 0 2 0 2 2 2 3 0 3 0 1 0 1 2 1 2 2 0 2 0 2 1 2 2 0 1
1 0 3 0 1 1 1 2 1 3 0 1 0 3 0 2 1 3 2 1 3 2 0 1 3 0 3 1 3 1 0 2 2 1 0 1 2
3 0 1 1 2 0 2 0 0 3 3 2 2 2 1 3 1 1 3 2 2 0 3 1 0 3 2 2 2 3 0 0 1 2 2 2 2
1 1 1 3 3 3 2 2 0 2 3 1 3 2 1 1 3 1 2 2 3 2 2 1 1 1 1 2 0 3 2 3 2 1 0 3 0
2 3 0 0 3 0 3 0 2 2 0 3 0 1 3 1 0 2 1 3 1 1 3 0 0 1 0 3 3 0 1 3 2 2 3 1 0
3 2 1 1 1 0 1 2 2 2 1 1 2 2 1 2 1 0 3 0 1 2 2 1 0 1 2 3 2 0 1 3 0 3 3 3 1
2 3 2 3 1 3 3 1 0 0 1 3 0 1 0 3 1 0 1 3 2 2 3 1 1 0 3 2 3 0 1 2 0 0 1 2 0
3 3 0 1 1 2 1 0 0 3 3 1 2 3 2 3 1 3 2 2 1 2 0 1 3 2 3 1 3 0 1 2 2 0 3 2 2
3 2 2 1 1 0 3 3 2 2 2 2 2 3 0 2 1 3 3 0 0 0 1 3 0 0 1 2 3 0 1 0 3 1 3 3 0
3 2 3 2 2 3 2 2 2 0 2 2 1 0 0 0 1 0 3 1 3 0 2 2 3 2 0 0 0 3 2 1 3 1 0 3 2
3 3 3 1 1 2 2 2 1 1 2 0 0 2 3 1 1 0 1 3 0 0 0 2 2 0 1 2 3 1 2 0 2 2 1 1 0
0 1 3 1 2 1 1 2 1 1 2 1 3 0 2 2 2 2 3 0 0 2 1 3 0 2 3 0 3 0 3 1 1 2 3 0 2
1 0 0 1 2 2 1 1 3 1 0 3 3 2 3 1 1 3 1 1 1 2 1 0 1 0 0 1 1 3 1 2 1 2 2 2 1
3 2 0 1 2 0 3 3 2 2 2 1 3 3 2 2 1 2 3 0 2 1 2 3 3 3 0 1 0 1 0 0 3 1 3 1 2
3 0 3 2 1 2 1 1 1 1 3 2 3 1 1 1 3 0 1 3 2 2 1 0 2 0 3 3 1 1 0 0 2 2 2 3 0
1 1 2 1 0 0 0 1 2 3 1 0 3 3 1 1 3 1 0 1 0 2 0 1 0 1 3 3 3 0 0 0 3 2 0 3 2
2 2 2 2 1 2 1 2 1 0 3 0 3 3 1 3 1 0 1 1 3 1 3 3 0 3 2 2 3 1 2 1 2 1 0 1 2
2 0 3 3 3 3 3 3 0 0 1 2 2 2 0 0 0 1 0 0 1 0 0 1 0 1 2 0 1 1 3 2 0 0 3 3 2
2 0 0 1 3 3 2 0 3 1 2 2 2 2 1 2 3 0 2 3 2 1 1 2 0 1 1 2 0 3 0 2 3 2 3 0 1
3 3 3 3 1 3 1 3 1 0 0 1 1 0 2 2 2 3 2 0 0 1 1 0 1 2 2 3 1 0 0 3 0 1 0 3 2
0 1 1 3 2 3 3 3 3 2 3 3 1 2 0 3 0 0 1 1 2 2 1 2 0 3 1 2 0 2 2 3 1 0 0 0 1
0 2 0 1 1 1 2 2 3 3 2 1 1 0 1 0 0 3 3 3 3 1 1 2 1 3 0 3 3 1 1 3 1 1 1 3 3
1 3 1 3 0 3 2 1 1 3 0 0 0 2 0 1 3 0 1 1 2 3 2 2 0 0 1 3 0 3 0 3 2 0 1 3 1
3 3 3 0 2 2 0 1 2 3 3 2 2 3 1 3 2 2 2 2 3 3 1 1 1 1 1 2 3 2 0 1 0 2 0 1 1
0]
```

2)

```
[1 3 1 0 3 0 0 1 0 1 0 3 0 2 3 3 2 3 1 1 2 0 3 0 1 1 0 3 3 2 0 3 2 2 3 2 0
3 3 2 1 2 3 1 3 1 0 3 3 0 0 3 3 0 3 3 3 1 2 1 1 3 1 1 0 1 3 0 3 1 0 3 1 2
3 1 0 0 3 3 1 2 0 0 2 0 1 3 3 3 2 1 2 1 0 3 1 1 3 2 2 1 2 2 3 2 1 3 3 2 2
3 0 0 2 0 2 1 0 0 3 1 3 3 2 1 2 1 3 0 1 1 3 2 3 1 0 3 1 1 0 3 0 0 1 3 3 3
3 3 1 2 2 2 1 3 3 1 1 0 3 3 3 3 2 1 0 3 3 2 2 2 3 0 2 0 2 3 3 3 3 0 3 2
0 3 0 0 3 1 1 0 0 2 3 2 1 1 0 2 3 1 2 2 1 1 2 3 3 3 3 2 0 0 0 0 1 1 0 2 0
0 3 2 0 3 2 1 1 0 0 2 2 2 3 3 2 3 2 2 1 0 1 3 3 1 2 2 2 1 0 3 1 3 2 2 1 0
2 3 2 1 2 1 1 1 3 0 0 0 3 1 1 2 0 0 2 1 0 3 1 0 0 3 1 3 1 0 3 2 2 3 0 1 1
0 0 2 1 0 3 1 2 0 2 3 1 2 0 2 0 2 0 2 3 1 0 1 3 1 0 3 1 2 0 1 3 2 2 3 1 1
0 0 3 1 0 3 3 3 2 1 2 2 0 2 1 1 1 1 0 2 3 1 3 2 3 1 3 1 0 1 1 3 3 0 3 2 0
1 0 2 3 0 0 3 1 2 0 2 0 1 2 3 3 3 1 2 0 2 0 3 3 3 3 0 3 1 2 3 0 1 3 1 1 1
3 0 3 0 0 2 1 0 0 3 3 3 3 3 3 2 2 3 0 2 2 2 3 1 2 2 2 2 0 1 1 2 2 3 0 1 2
3 1 1 2 2 3 3 2 0 0 3 2 0 0 0 1 3 2 3 2 3 0 0 1 3 0 1 0 1 3 3 0 2 0 0 1 0
1 1 3 3 3 0 2 0 0 0 3 2 0 3 2 0 2 0 3 3 2 2 0 2 3 0 2 3 0 1 3 2 3 3 1 3 1
0 0 0 3 2 0 1 1 0 1 0 0 2 1 2 2 1 0 2 0 1 2 3 3 0 3 1 3 3 1 0 1 3 2 2 3 0
3 0 3 3 2 2 1 2 3 1 2 3 1 2 0 0 0 2 3 1 1 0 0 1 3 0 0 3 1 0 0 3 3 0 3 1 1
3 2 0 0 2 2 0 0 1 0 1 2 0 0 3 1 0 3 0 0 1 1 1 0 0 1 0 1 3 3 0 3 2 1 1 3 2
2 2 1 3 0 0 2 3 1 0 1 3 2 3 1 1 2 0 1 3 0 3 3 2 1 2 1 0 2 3 1 3 0 2 3 2 1
1 1 1 2 1 1 3 3 0 2 0 0 0 1 3 0 1 1 0 1 1 2 0 2 2 3 2 1 3 2 0 2 0 0 0 3 1]
```

2 3 1 1 0 1 1 1 1 2 3 1 1 1 3 1 1 0 0 2 0 2 2 0 0 0 0 1 3 0 3 3 1 1 0 1 0
1 2 0 1 3 1 1 1 3 2 0 3 1 2 0 2 0 0 1 3 1 0 0 0 3 1 2 3 3 2 2 2 0 0 1 3 0
3 1 1 1 3 1 2 2 3 2 0 1 2 0 2 0 2 2 1 2 1 0 0 0 2 2 3 0 0 3 2 2 0 3 1 1 0
2 0 2 0 0 1 0 0 3 1 3 2 1 3 0 1 1 2 0 1 1 2 3 1 2 3 0 0 1 0 1 1 3 0 1 0 2
3 3 3 0 2 1 2 2 0 1 1 0 1 0 0 3 1 0 2 3 3 1 1 3 1 0 1 2 3 0 2 0 1 1 1 1 3
2 2 0 1 1 3 2 0 3 1 3 0 3 2 3 0 0 0 3 1 1 0 3 0 2 0 1 0 3 1 0 1 1 3 0 0 3
1 1 3 2 1 2 3 2 2 2 1 0 2 0 0 2 1 1 1 2 0 2 0 0 0 0 2 1 1 3 2 2 1 0 3 1 2
1 0 3 3 2 0 0 3 0 0 1 0 1 3 2 3 0 1 0 3 2 3 0 3 2 0 0 2 3 2 2 2 1 3 1 2 3
0]

3)

[2 2 1 0 3 0 2 2 2 0 3 2 2 2 0 3 1 1 2 3 1 3 0 3 2 0 2 0 2 1 2 3 2 2 0 0 3
1 0 2 1 3 3 2 2 2 3 3 3 2 2 3 2 1 2 1 2 1 1 2 1 2 1 1 2 2 2 1 2 3 3 3 3 0
0 3 0 1 2 0 2 0 2 1 1 1 1 3 0 0 2 3 2 3 1 2 1 2 1 0 0 3 2 2 1 1 3 2 1 2 2
2 2 0 0 2 0 0 2 3 0 0 2 1 2 3 2 2 1 0 3 0 3 0 3 3 3 0 3 2 1 3 0 2 1 3 2 3
2 1 2 2 0 1 3 3 3 0 1 0 2 2 1 0 1 2 1 1 1 0 0 3 2 0 2 1 1 0 3 2 0 0 2 3 2
2 3 3 1 1 0 0 1 3 2 1 0 2 2 3 3 0 0 0 1 3 3 3 0 2 2 0 0 1 2 1 1 0 3 0 2 0
2 2 0 0 2 1 1 0 1 1 3 2 1 1 0 2 0 3 2 1 0 2 1 2 1 2 0 1 1 1 2 2 0 2 1 1 2
1 1 1 3 3 1 2 2 1 2 1 3 1 1 3 3 1 1 1 3 2 0 1 2 1 0 3 2 3 0 1 0 1 0 0 1 0
0 1 0 1 0 3 2 1 3 2 2 1 3 1 0 0 2 1 1 1 0 0 2 1 3 0 3 1 1 3 0 3 0 1 1 3 0
1 0 2 0 0 2 0 1 1 2 3 3 1 3 1 0 0 1 2 2 3 1 1 1 2 3 2 2 1 2 0 1 0 1 3 0 3
3 1 2 1 2 2 1 1 0 3 2 1 3 3 3 0 2 0 1 2 2 0 3 0 3 1 2 0 1 3 1 1 0 0 2 1 2
3 3 2 2 2 1 0 1 1 1 2 1 3 2 0 0 1 1 3 0 2 3 3 0 3 3 0 3 1 3 3 0 3 1 1 1 2
2 0 3 2 2 3 1 0 1 3 1 1 1 1 2 3 0 2 3 1 2 0 3 3 3 2 1 2 0 1 0 0 3 3 2 0 3
2 2 2 2 2 1 3 0 2 3 2 0 2 2 1 3 2 2 0 2 3 1 1 2 3 3 2 3 2 3 2 0 1 3 3 1 1
2 3 2 2 3 2 2 3 0 0 0 0 3 0 2 0 0 0 0 2 0 3 1 1 1 2 0 2 3 3 2 3 3 2 1 0 3
1 3 0 0 1 3 3 2 0 3 0 1 1 0 2 2 2 3 1 3 1 1 0 3 2 1 3 0 3 2 0 2 1 3 0 2 3
3 1 1 3 2 1 2 1 0 0 1 3 0 0 3 1 3 0 1 3 3 0 2 3 1 3 0 0 3 3 0 1 3 1 3 1 3
1 2 2 1 1 1 3 1 3 1 3 2 0 2 1 0 3 0 1 1 3 0 1 3 3 3 2 0 0 1 2 3 1 3 1 1 1
3 2 3 1 0 1 0 2 2 1 1 2 2 1 0 3 0 1 2 1 2 1 3 1 0 0 3 0 3 1 2 0 1 3 2 3 1
3 0 0 1 1 2 3 0 1 0 0 3 3 3 1 2 1 1 3 3 0 2 0 3 0 1 3 1 1 2 3 0 1 3 0 2 1
2 3 3 2 2 0 3 0 3 2 1 3 2 2 3 0 3 2 3 2 0 3 2 2 2 0 1 0 2 3 1 1 3 2 2 1 2
2 3 2 2 2 1 3 0 1 1 0 2 0 2 3 2 0 3 3 2 2 3 2 0 3 1 2 2 0 1 3 3 0 0 0 3 3
0 1 3 2 0 2 2 1 0 0 1 1 3 3 0 0 3 0 2 0 1 0 3 1 0 3 1 1 0 1 2 2 1 3 0 1 2
0 0 3 3 2 1 1 0 2 3 3 0 3 3 2 1 3 3 3 3 0 2 0 1 3 2 0 0 2 2 1 3 1 0 0 1 3
0 2 1 1 1 0 0 1 1 2 1 1 2 0 3 3 0 0 3 1 3 1 1 2 3 0 0 2 0 1 1 0 1 1 1 1 0
3 3 1 3 2 0 2 0 2 0 2 2 2 0 3 1 2 1 3 3 0 2 0 3 3 3 2 1 1 3 0 0 1 1 1 2 3
1 0 0 2 0 1 0 3 3 3 2 3 1 0 0 0 2 0 2 3 0 1 1 0 1 3 3 3 3 1 2 3 2 1 3 2 1
1]

4)

[2 0 2 1 0 0 2 0 2 1 2 3 1 2 0 1 1 2 1 3 3 0 2 0 1 1 3 3 1 2 3 3 2 3 0 1 0
1 2 3 0 2 2 2 2 2 0 1 0 2 3 3 2 0 0 1 2 2 2 2 0 0 2 0 0 0 0 0 3 1 0 1 0 2
1 0 1 3 2 3 1 1 2 3 0 3 3 2 0 1 2 2 1 2 2 3 1 1 1 3 0 1 3 0 0 3 2 1 1 0 2
2 0 0 2 2 0 1 2 2 2 1 3 2 2 2 1 1 3 3 0 2 2 0 0 3 0 2 2 1 3 1 0 3 2 1 3 1
3 0 1 0 2 3 1 2 2 2 0 2 2 2 2 1 3 0 0 0 2 3 0 0 1 1 1 1 2 3 1 0 3 2 2 0 3
2 0 1 3 3 1 2 2 3 1 3 3 1 1 3 2 3 2 1 1 2 2 0 0 0 3 3 3 2 0 3 1 0 3 2 2 0
0 2 2 0 2 2 2 1 3 3 0 1 3 0 3 1 1 0 3 0 0 2 1 1 2 2 0 0 3 3 2 1 0 2 1 3 0
1 0 3 2 1 2 2 2 2 0 0 1 3 0 0 3 2 2 3 0 0 2 0 0 3 2 2 0 2 0 0 0 1 2 1 2 2
0 1 3 3 1 2 3 2 2 3 2 0 3 2 1 3 1 1 1 1 0 1 2 1 3 3 3 0 0 0 2 2 2 1 2 2 0
0 0 0 3 3 3 0 0 2 1 1 1 1 2 1 0 1 1 2 2 2 2 3 1 0 0 0 3 2 1 2 0 2 3 2 2 3
2 2 1 3 0 2 2 3 2 1 3 2 0 0 2 0 3 2 0 2 2 1 0 2 0 3 1 1 2 2 3 0 3 3 3 2 3
2 3 1 0 2 2 2 1 3 2 0 2 2 1 3 2 1 1 3 2 3 1 1 3 1 2 2 3 3 0 0 2 3 2 3 1 1
3 2 3 3 0 0 3 0 3 3 1 2 3 2 3 2 1 1 2 2 2 2 1 2 2 3 3 2 1 2 1 0 2 1 1 1 2
2 2 2 0 0 3 0 2 1 1 1 1 3 0 2 0 1 0 3 0 2 1 1 2 1 1 0 2 2 2 1 1 0 2 3 0 0
3 1 0 2 0 0 1 3 3 3 0 1 1 3 1 1 3 3 1 0 2 2 3 1 0 0 0 1 3 1 2 1 2 2 3 3 0
0 1 0 3 0 1 2 2 2 2 3 1 3 2 1 3 0 3 0 0 0 3 2 3 2 2 1 2 0 0 1 1 3 2 2 2 1]

1 0 3 1 0 1 0 2 1 0 2 1 1 2 0 0 0 0 3 1 1 0 2 3 2 1 1 0 3 3 0 3 3 1 1 3 1
0 3 2 0 3 1 3 2 2 3 2 0 0 2 0 3 2 2 2 2 2 2 0 3 1 2 1 1 0 3 2 2 2 2 1 1 2
3 3 0 2 1 2 1 3 0 1 1 0 2 3 2 0 0 2 0 1 3 0 1 2 3 2 1 1 0 2 2 0 2 1 1 3 0
1 1 0 2 3 0 2 2 1 0 2 0 3 2 3 3 1 0 1 2 0 1 0 3 2 2 3 3 1 3 1 2 3 3 3 3 3
2 2 2 2 3 0 3 0 0 3 0 2 2 1 2 3 3 3 0 1 0 0 0 0 1 1 3 3 1 2 2 2 2 2 3 1 0
3 3 3 3 3 3 1 0 0 0 0 1 3 2 2 0 3 3 3 3 1 2 2 2 3 3 0 3 1 1 2 0 3 1 0 2 1
0 3 1 3 0 3 3 1 1 2 1 2 0 2 3 3 2 3 1 1 2 2 0 1 2 2 2 1 3 0 0 3 0 0 1 2 1
2 1 0 3 1 2 3 1 1 2 2 0 1 1 1 3 0 1 1 2 0 0 1 3 1 1 1 0 1 0 0 0 1 1 1 2 3
1 0 2 3 1 1 0 3 3 2 3 0 2 1 0 2 0 3 0 2 3 3 3 0 3 1 3 0 0 2 0 3 0 3 2 2 2
0 1 0 2 3 2 2 0 3 1 0 0 2 3 0 2 3 2 3 2 0 0 2 0 1 3 0 1 2 2 3 3 2 2 2 0 1
3 1 2 2 2 0 1 2 2 1 1 1 2 2 0 1 3 3 2 3 0 2 2 3 1 0 3 1 1 1 3 0 3 3 2 0 0
2]