总结

挂机一周回来，相信代码能力变强了，重新挑level2，目前早上完成了遗传算法初代，采用最暴力的随机片段杂交和突变。

可以处理不容易陷入局部解的局面：
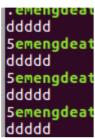
```
                a.cpp          ×            map.in
1 ####################
2 ####################
3 #####P#..###########
4 #..........###.E####
5 ##.#..#..#.##..#####
6 ##.#.##.....#.######
7 ##...##.##....######
8 ####...............#
9 ####.##.#....##..#..
0 ####.##.#...##......
1 ######........##...
2 ###................
3 ###..........###....
4 ######.......###.#..
5 #######......##..#..
6 ####...........##...
7 ####....#.......###..
8 ####....####........
9 ######..............
0 ##############...##
```

```
emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/GA$ ./a
drrrrrdddrrruurur
17emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/GA$ ./a
drrrddrrrdrrruurur
17emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/GA$ ./a
drrrrrdddrrruurur
17emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/GA$ ./a
drrrddrrrdrrruurur
17emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/GA$ ./a
drrrrrddrdrrruurur
17emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/GA$ ./a
drrrrrddrdrrruurur
17emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/GA$ ./a
drrddrrrrdrrruurur
17emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/GA$ ./a
drrdrdrrrdrrruurur
17emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/GA$ ./a
drrrrrdddrrruurur
17emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/GA$ ./a
drrrrrddrdrrruurur
```

但处理不了蛇行图这种局部解坑太大情况。

```
a.cpp
1 #P#.......
2 #.#.#####.
3 #.#.#...#.
4 #.#.#.#.#.
5 #.#.#.#.#.
6 #.#.#E#.#.
7 #.#.###.#.
8 #.#.....#.
9 #.#######.
0 #.........
```

```
.emengdeat
ddddd
5emengdeat
ddddd
5emengdeat
ddddd
5emengdeat
ddddd
```

下午解决!