

Problem 8. The LOL Game (Large)

Time limit: 10 seconds
Memory limit: 256 megabytes

This problem is the same as the previous one except that the number of “-” characters can be up to 13. In the previous problem the limit was 7. Also the time limit is 10 seconds as opposed to 5 seconds.

Examples

standard input	standard output
26 L00000000LLLL-----	N
18 0---0---0---0---L-	D
21 ---L--L---0-L---L0OLL	P