



Input File: E.IN
Output File: standard output
Program Source File: E.C, E.CPP, E.JAVA

1	2	3	4	5	6	7	8
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8 7 6 5 → 6 5 → 7
1 2 3 4 → 3 4 → 6
2 1 → 2 1 → 5
7 8 → 4
1
8

Sample data are too big to show on paper, but if $K=3$ and you have to output the first 5 numbers, the output is the following:

Sample input	Sample output
RU	7
LD	2
LU	3
	6
	5