

Lab-08

Q004P-2

Problem 1. A

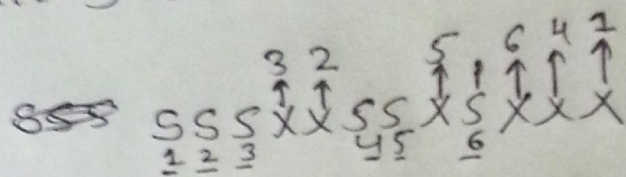
Given that: push = 1, 2, 3, 4, 5, 6 at each push.

SSSSSSXXXXX = 654321.

where S = push
X = pop

①. output = 325641.

Soln

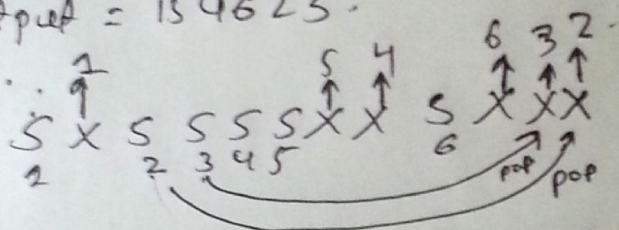


So, the sequence that would give output 325641 is

325641 is S S S X X S S X S X X X

②. output = 154623.

Soln



It is impossible to get the required output because, stack works as Last in first out, so, since, 3 is pushed after 2, it is impossible to get 2 before 3 because in our sequence, at last we have 2 3 in the stack but we need ~~2~~ while pop 3 is popped before 2, so, we cannot have 1 5 4 6 2 3