The about code inserts some elements in to a stack.

The while loop checks if the is empty or not.

The elements inserted be 4 3 2 1 .

The dequeue operations removes first inserted elements and push into a stack.

1 will be removed and pushed into stack.

Similarly the stack will be in form of

4

3

2

1

So second while loop removes elements from stack and enqueues into a queue.

So 4 will be removed first.

The final elements in the queue will be 1 2 3 4