**Reverse String**

**Q:** Given a string, reverse it using stack.

**Test Cases:**

**Input:** “geeksofjava”

**Output:** “avajfoskeeg”

**Input:** “hello”

**Output:** “olleh”

**Input:** “string reverse”

**Output:** “esrever gnirts”

**HINT:** Use stack because of its LIFO (Last In First Out) property.

**Algorithm:**

Step-1: Push all the characters one by one to the stack

Step-2: Pop one by one all the characters back from the stack till the stack doesn't get empty and keep appending it to the new String.

Step-3: The new string is the reversed string.

**Example:**

Input: “Hello”

* Read one by one all the characters from the string and push it to the stack.

So stack will read as H e l l o

* Pop one by one all the values from the stack so the order in which they will be popped is: o l l e H

**Complexity:**

Time complexity: O(n)