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Main.java

```
43 }
44     return stack.get(stack.size()-1);
45 }
46 }
47 class Main{
48     Run | Debug
49     public static void main(String args[])
50     {
51         Stack stack = new Stack();
52         stack.push(1); stack.push(2); stack.push(3);
53
54         System.out.println("Size of stack: "+stack.size()); 3
55         System.out.println("Top element: " +stack.peek()); 3
56
57         System.out.println("Popping elements: ");
58         while(!stack.isEmpty()) // while the stack is not empty
59         {
60             System.out.println(stack.pop()); // pop
61         }
62     }
63 }
```

stack

|   |
|---|
|   |
|   |
|   |
| 3 |
| 2 |
| 1 |

op: 3  
3  
2  
1

Ln 59, Col 52 Spaces: 4 UTF-8 LF {} Java

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Main.java

```
61 // }
62 // }
63
64
65 // Given a string S, reverse the string using stack.
66
```

S = "abc"  
o/p = "cba"  
sb = cba  
Sop(sb)

|   |
|---|
|   |
|   |
|   |
| c |
| b |
| a |

Ln 66, Col 1 Spaces: 4 UTF-8 LF {} Java

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J Main.java 2 x

J Main.java > StringReversal > reverseString(String)

65 // Given a string S, reverse the string using stack.

66 import java.util.Stack;

67

68 class StringReversal

69 {

70 String reverseString(String input) // input="abc"

71 {

72 Stack<Character> stack = new Stack<>();

73 for(int i=0; i< input.length(); i++)

74 {

75 stack.push(input.charAt(i)); // a, b, c

76 }

77

78 StringBuilder reversed = new StringBuilder();

79 while(!stack.isEmpty())

80 {

81 reversed.append(stack.pop());

82 }

83 return reversed.toString();

84 }

85 }

86

87 class Main

88 {

89 Run | Debug

90 public static void main(String args[])

91 {

Ln 83, Col 36 Spaces: 4 UTF-8 LF {} Java

abc

input

|   |   |   |   |
|---|---|---|---|
| 0 | 1 | 2 | 3 |
| a | b | c |   |

Stack

|   |
|---|
| c |
| b |
| a |

reversed = "cba"

Newton School

my.newtonschool.co/playground/code/b0c7lp8j80x1

Example

Sample Input 1: aabdda

Output: abda

Explanation: Removing the element at indices 1 and 4.

Sample Input 2:

String rem\_dup(String s)

{

SB res = new SB();

res.append(s.charAt(0));

for(int i=1; i< s.length(); i++)

{

char curr = s.charAt(i);

char prev = res.charAt(res.length()-1);

if (curr != prev)

res.append(curr);

}

}

res = a b d a

curr = a b d a

prev = a b d a

