

# Programming Assignment 1

Hackerrank username: w\_wangondu

## Summary of your results:

The screenshot displays the HackerRank interface for the 'Queue using Two Stacks' challenge. At the top, the user's profile 'w\_wangondu' is visible. The challenge title 'Queue using Two Stacks' is prominently displayed, along with the user's current rank (2502316) and points (9.75/30). A notification banner states, 'Your Queue using Two Stacks submission got 0.00 points. Try Again!'. Below this, a table shows the submission history:

RESULT	SCORE	LANGUAGE	TIME	
✗ Wrong Answer	0.0	Python 3	a few seconds ago	<a href="#">View Results</a>
✗ Runtime Error	0.0	Python 3	2 days ago	<a href="#">View Results</a>

On the right side, a 'NEED HELP?' section provides links to 'View discussions', 'View editorial', and 'View top submissions'. The browser's address bar shows the URL: <https://www.hackerrank.com/challenges/queue-using-two-stacks/submissions>. The Windows taskbar at the bottom indicates the time is 23:14 on 14/02/2021.

**Code:**

```
# PA2
# Author: Wanjiru Wang'ondur
lines = input()

pruned_list = [] # to stop the append from overwriting the other i's
                 (works!)
for i in lines:
    i = i.replace("\n", "")
    i = i.replace(" ", "")
    pruned_list.append(i)

int_pruned_list = list(map(int, pruned_list)) # kept out of the loop
to prevent overwriting

pruned_list.pop(0)
split_list = []
for j in pruned_list:
    if j[0] == str(1):
        split_list.append(j[0])
        split_list.append(j[1:3])
    elif j[0] == str(2):
        split_list.append(j[0])
    elif j[0] == str(3):
        split_list.append(j[0])

int_split_list = list(map(int, split_list))

stackA = int_split_list

stack_new = []

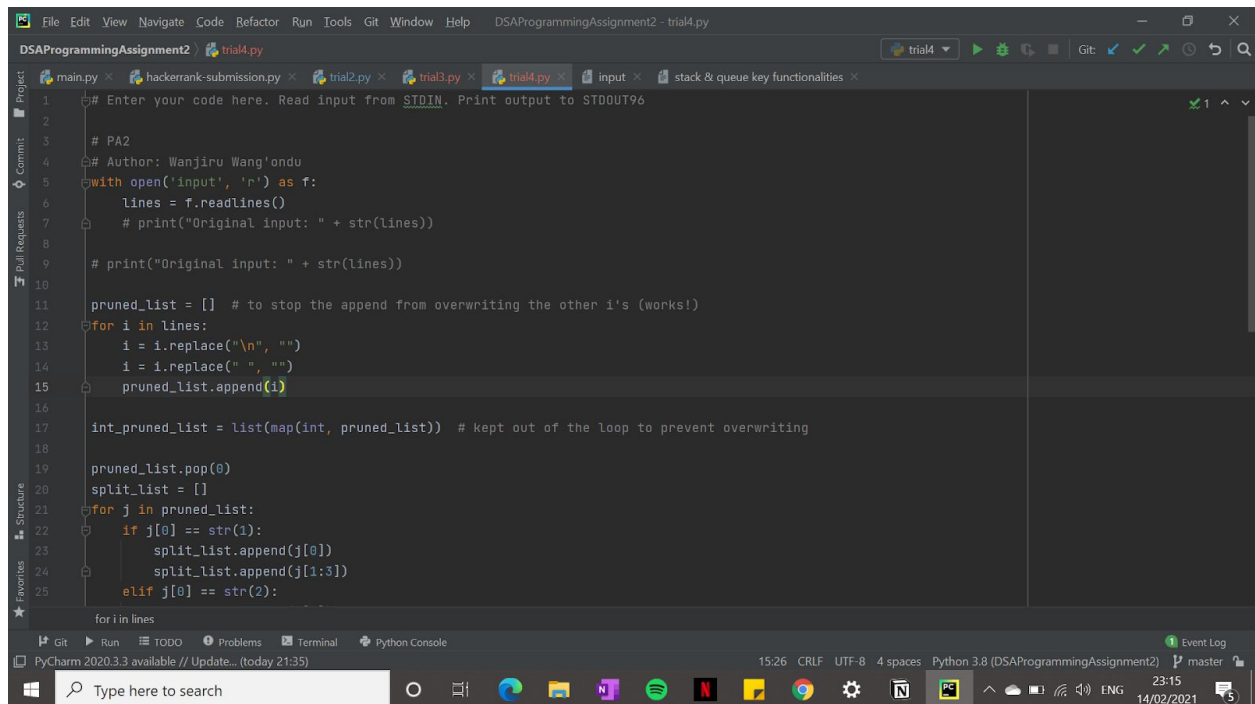
for i in range(len(int_split_list)):
    if int_split_list[i] == 1:
        stack_new.append(int_split_list[i + 1])
        print("append")

    elif int_split_list[i] == 2: # dequeue is to remove, so pop
```

```
    r = stack_new.pop()
    print("pop")

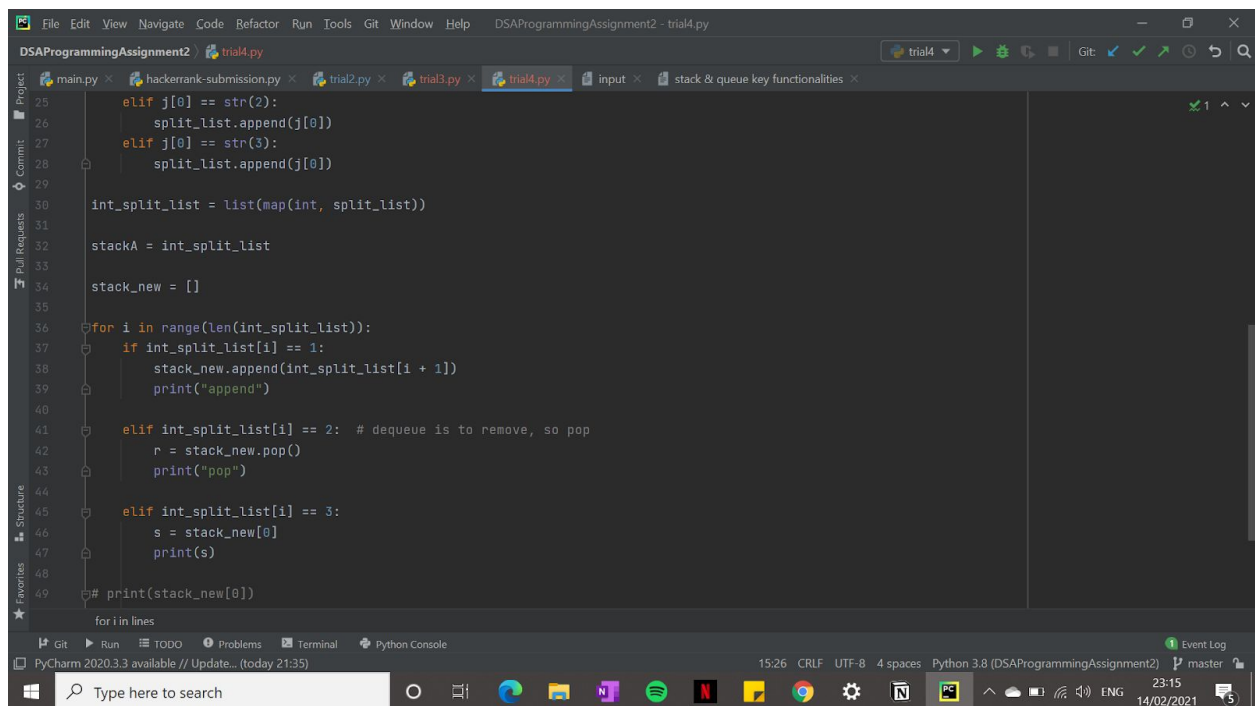
elif int_split_list[i] == 3:
    s = stack_new[0]
    print(s)
```

## IDE Test results:



This screenshot shows the PyCharm IDE with the file `trial4.py` open. The code is as follows:

```
1  # Enter your code here. Read input from STDIN. Print output to STDOUT
2
3  # PA2
4  # Author: Wanjiru Wang'ondu
5  with open('input', 'r') as f:
6      lines = f.readlines()
7      # print("Original input: " + str(lines))
8
9      # print("Original input: " + str(lines))
10
11     pruned_list = [] # to stop the append from overwriting the other i's (works!)
12     for i in lines:
13         i = i.replace("\n", "")
14         i = i.replace(" ", "")
15         pruned_list.append(i)
16
17     int_pruned_list = list(map(int, pruned_list)) # kept out of the loop to prevent overwriting
18
19     pruned_list.pop(0)
20     split_list = []
21     for j in pruned_list:
22         if j[0] == str(1):
23             split_list.append(j[0])
24             split_list.append(j[1:3])
25         elif j[0] == str(2):
```



This screenshot shows the PyCharm IDE with the file `trial4.py` open, continuing from line 25:

```
25         elif j[0] == str(2):
26             split_list.append(j[0])
27         elif j[0] == str(3):
28             split_list.append(j[0])
29
30     int_split_list = list(map(int, split_list))
31
32     stackA = int_split_list
33
34     stack_new = []
35
36     for i in range(len(int_split_list)):
37         if int_split_list[i] == 1:
38             stack_new.append(int_split_list[i + 1])
39             print("append")
40
41         elif int_split_list[i] == 2: # dequeue is to remove, so pop
42             r = stack_new.pop()
43             print("pop")
44
45         elif int_split_list[i] == 3:
46             s = stack_new[0]
47             print(s)
48
49     # print(stack_new[0])
```