Q1- Find the Runner-Up Score

In [2]:

```
n = int(input())
arr = list(map(int, input().split()))

print(max([i for i in arr if i< max(arr)]))
```

```
4
3 7 8 4
7
```

Q2- Finding the Percentage

In [6]:

```
n = int(input())
student_marks = {}
for _ in range(n):
    name, *line = input().split()
    scores = list(map(float, line))
    student_marks[name] = scores
query_name = input()
marks=student_marks[query_name]
print(format(sum(marks)/3,'.2f'))
```

```
3
Krishna 67 68 69
Arjun 70 98 63
Malika 52 56 60
Malika
56.00
```

Q3- Lists

In [9]:

```
N = int(input())
l=[]
for i in range(N):
    cmd=input().split()
    if cmd[0]=='insert':
        l.insert(int(cmd[1]),int(cmd[2]))
    elif cmd[0]=='print':
        print(l)
    elif cmd[0]=='append':
        l.append(int(cmd[1]))
    elif cmd[0]=='pop':
        l.pop()
    elif cmd[0]=='remove':
        l.remove(int(cmd[1]))
    elif cmd[0]=='reverse':
        l.reverse()
    elif cmd[0]=='sort':
        l.sort()
```

```
4
insert 0 5
print
[5]
append 4
print
[5, 4]
```

Q4- Tuples

In [10]:

```
n=int(input())
t=(map(int, input().split()))
print(tuple(t).__hash__())
```

```
2
1 2
-3550055125485641917
```

Q5- Sets

In [ ]:

```
def average(array):

    s=set(arr)
    l=list(s)
    return sum(l)/len(l)
if __name__ == '__main__':
    n = int(input())
    arr = list(map(int, input().split()))
    result = average(arr)
    print(result)
```

Q6- Set.add()

In [ ]:

```
n=int(input())
set_s=set()
for i in range(n):
    set_s.add(input())
print(len(set_s))
```

Q7- Set.union()

In [*]:

```
s1=set("Innomatics")
#s2=set("Research")
print(s1.union("Research"))
```

Q8-Set.Intersection()

In [ ]:

```
s = set("Innomatics")
print s.intersection("Research")
```

Q9- Set.difference()

In [ ]:

```
s = set("Innomatics")
print s.difference("Research")
```

Q10- Set.symmetric_difference()

In [ ]:

```
s = set("Innomatics")
print s.symmetric_difference("Research")
```

Thanks