

List continued

```
runs = [0, 99, 1, 99, 23, 99, 98, 100, 200]
```

```
runs[-1]
```

```
200
```

```
runs[len(runs) - 1]
```

```
200
```

Updating the value

```
runs[-2]
```

```
100
```

```
runs[7]
```

```
100
```

```
runs[7] = 150
```

```
runs
```

```
[0, 99, 1, 99, 23, 99, 98, 150, 200]
```

```
runs
```

```
[0, 99, 1, 99, 23, 99, 98, 150, 200]
```

```
runs[2] = runs[4]
```

```
runs
```

```
[0, 99, 23, 99, 23, 99, 98, 150, 200]
```

Quizzes

```
user_values = [2, 5, 9]
```

```
user_values[2] = user_values[2] + 1
```

```
print(user_values)
```

```
[2, 5, 10]
```

```
user_values = [3, 5, 9]
```

```
user_values[1] = user_values[1] + 1
```

```
user_values[2] = user_values[2] + 2
```

```
print(user_values)
```

```
[3, 6, 11]
```

Linear Search Question: When did Sachin scored 99 first time?

runs

[0, 99, 23, 99, 23, 99, 98, 150, 200]

```
for i in range(0, len(runs)):
    if runs[i] == 99:
        print(i)
        break
```

1

```
for i in range(0, len(runs)):
    print(i)
```

0

1

2

3

4

5

6

7

8

```
for i in runs:
    print(i)
```

0

99

23

99

23

99

98

150

200

Find total count when Sachin scored 9 marks

runs

[0, 99, 23, 99, 23, 99, 98, 150, 200]

count = 0

```
for i in runs:
```

```
    if i == 99:
        count += 1

print(count)

3

total_99 = 0
for i in runs:
    if i == 99:
        total_99 += i

print(total_99)

297
```

Find the maximum runs scored by Sachin in his career

```
runs = [10, 99, 23, 99, 23, 99, 98, 150, 200, 100]

maximum = runs[0]

for i in range(0, len(runs)):
    if runs[i] > maximum:
        maximum = runs[i]

print(maximum)

200

maximum = runs[0]
index = 0

for i in range(0, len(runs)):
    if runs[i] > maximum:
        maximum = runs[i]
        index = i

print(maximum)
print(index)

200
8
```

```
maximum = 10
maximum = 99
maximum = 150
maximum = 200
```

```
print(maximum)
```

```
200
```

```
a = 3
b = 45
```

```
if a > b:
    print("a")
else:
    print("b")
```

```
b
```

```
## What is the match when Sachin scored maximum?
```

```
runs = [10, 99, 23, 99, 23, 99, 98, 150, 200, 100, 300]
```

```
maximum = runs[0]
```

```
index = 0
```

```
for i in range(0, len(runs)):
    if runs[i] > maximum:
        maximum = runs[i]
        index = i
```

```
print(maximum)
```

```
print(index)
```

```
300
```

```
10
```