

`l = ['raja', 'prasanth', 'sandeep', 'naveen']`

*list* (green arrow pointing to the opening bracket)

*str* (red arrow pointing to the first element 'raja')

`s = 'r0a1j2a3'`

`s[1] = 'A'`

`s1 = ''`

`for i in s:`

`if i in 'aeiouAEIOU':`

`s1 = s1 + i.upper()`

`else:`

`s1 = s1 + i`

`else:`

`print(s1) ⇒ rAja`

```
l = [1, 2, 3, 4, 5]  
l.insert(3, 100)
```

```
l = [8, 3, 1, 2, 1]
for i in l:
    l.remove(i)
else:
    print(l)
```

[3, 2]

iteration: 1  
index: 0  
i = 8

$[^0\cancel{8}, ^13, ^21, ^32, ^41]$

iteration: 2  
index: 1  
i = 3

$[^03, ^1\cancel{3}, ^22, ^31]$

iteration: 3  
index: 2  
i = 2

$[^03, ^12, ^2\cancel{2}]$

iteration: 4  
index: 3

$[^03, ^12]$

$l = [8, 4, 3, 5] \leftarrow \text{input}$

$l = [ [0, 1, 2, 3, 4, 5, 6, 7],$   
     $[0, 1, 2, 3],$   
     $[0, 1, 2],$   
     $[0, 1, 2, 3, 4]$   
     $] \leftarrow \text{output}$