

Find the Smallest and largest element in an array

1. Initialize an empty list num.

```
num=[]
```

2. Prompt the user to input the size of an array.

```
size=int(input("Enter the size : "))
```

```
Enter the size : 5
```

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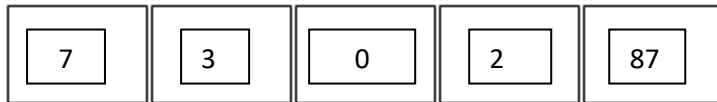
3. Iterate from 0 to n-1:

```
for i in range(size):
```

a. Prompt the user to input an element and append it to the num list.

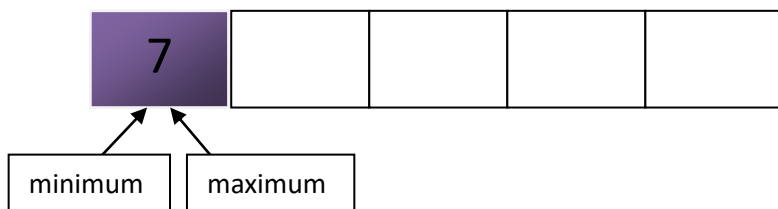
```
    val=int(input("Enter the elements in an  
array "))  
    num.append(val)
```

```
Enter the elements in an array 7
Enter the elements in an array 3
Enter the elements in an array 0
Enter the elements in an array 2
Enter the elements in an array 87
```



4. Initialize variables minimum and maximum with the first element of the num list.

```
minimum=0
maximum=0
```



5. Iterate through the elements of num:

```
for i in range(len(num)):
```

a. If the current element is greater than maximum, update maximum.

```
if num[i]>maximum:  
    maximum=num[i]
```

7>7	False	Maximum = 7
3>7	False	Maximum = 7
0>7	False	Maximum = 7
2>7	False	Maximum = 7
87>7	True	Maximum = 87

b. If the current element is less than minimum, update minimum.

```
if num[i]<minimum:  
    minimum=num[i]
```

7<7	False	Minimum = 7
3<7	True	Minimum = 3
0<3	True	Minimum = 0
2<0	False	Minimum = 0
87<0	False	Minimum = 0

6. Print the maximum and minimum elements found.

```
print(maximum,"= maximum")  
print(minimum,"= minimum")
```

Maximum	Minimum
87	0

```
num=[]
size=int(input("Enter the size : "))
for i in range(size):
    val=int(input("Enter the elements in an array "))
    num.append(val)

minimum=0
maximum=0

for i in range(len(num)):
    if num[i]>maximum:
        maximum=num[i]
    if num[i]<minimum:
        minimum=num[i]

print(maximum,"= maximum")
print(minimum,"= minimum")
```