

NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY

PROGRAMMING FUNDAMENTALS HOME TASK # 8

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<u>Q 1:</u>

```
#include <iostream>
using namespace std;
int main() {
    int arr[10], num, temp, total=0,
final=0, most rep;
        cout<<"Enter a num: ";</pre>
        cin>>num;
        arr[i]=num;
             temp=arr[i];
             if (temp==arr[j]) {
                 total++;
        if (total>final) {
             final=total;
             most rep=arr[i];
        total=0;
    cout << "The most repeated number is:</pre>
"<<most rep;
    return 0;
```

Q1 (results):

```
Enter a num:?

Enter a num:5

Enter a num:6

Enter a num:7

Enter a num:7

Enter a num:8

Enter a num:5

The most repeated number is: 5

Process finished with exit code 0
```

Q 2:

```
#include <iostream>
using namespace std;
int main() {
    int arr[8], num, temp, small, large,
largest=-9999, smallest=999999;
         cout<<"Enter a num: ";</pre>
         cin>>num;
        arr[i]=num;
             temp=arr[i];
             if (temp>arr[j]) {
                 large=temp;
             if (temp<arr[j]) {</pre>
                 small=temp;
         if (large>largest) {
             largest=large;
         if (small>smallest) {
             smallest=small;
    cout<<"The largest number is:</pre>
"<<largest;
    cout<<"The smallest number is: "<<small;</pre>
    return 0;
```

Q 2 (result):

Q 3:

```
#include <iostream>
using namespace std;
int main() {
   int arr[5], num, temp;
   for (int i = 0; i < 5; i++) {
      cout<<"Enter a num: ";
      cin>>num;
      arr[i]=num;
   }
   temp=arr[2];
   arr[2]=arr[4];
   arr[4]=temp;
   for (int i = 0; i < 5; ++i) {
      cout << arr[i] << " ";
   }
   return 0;
}</pre>
```

Q3 (results):

```
cout << arr[i] << " ";

return 0;

main

main

main

main

main.exe

Enter a num:5

Enter a num:9

Enter a num:10

Enter a num:3

Enter a num:-5

5 9 -5 8 10

Process finished with exit code 0
```