

1. Initialize an array of 10 elements and print the array elements both in normal and reverse order.

For example,

Output:

12 32 43 1 54 53 15 64 3 13

13 3 64 15 53 54 1 43 32 12

Your code here:

```
#include <iostream>
using namespace std;

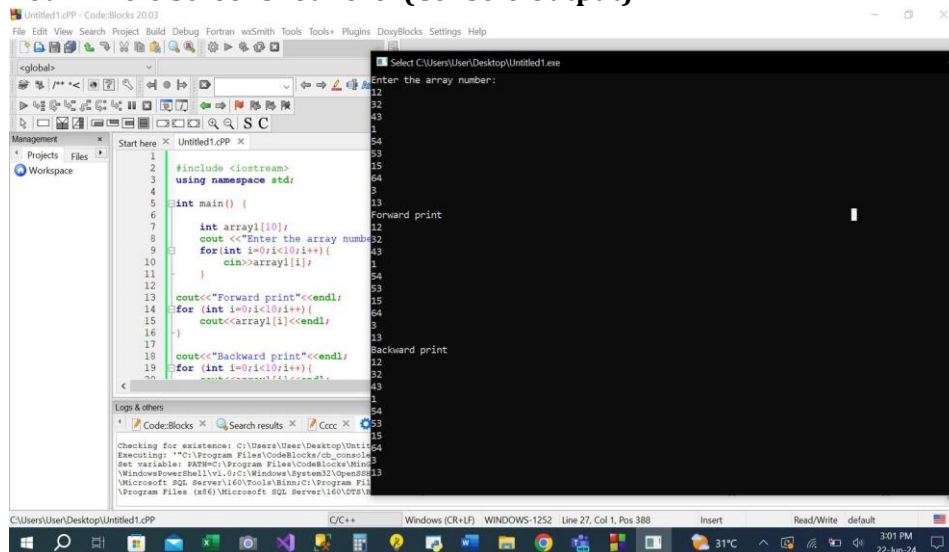
int main() {

    int array1[10];
    cout << "Enter the array number:" << endl;
    for(int i=0; i<10; i++){
        cin >> array1[i];
    }

    cout << "Forward print" << endl;
    for (int i=0; i<10; i++){
        cout << array1[i] << endl;
    }

    cout << "Backward print" << endl;
    for (int i=0; i<10; i++){
        cout << array1[i] << endl;
    }
    return 0;
}
```

Your whole Screenshot here: (Console Output):



2. Initialize an integer array of 10 elements and print how many numbers are odd and how many numbers are even.

For example,

Input: **12 32 43 1 54 53 15 64 3 13**

Output:

6 odd numbers

4 even numbers

Your code here:

```
#include <iostream>
using namespace std;
```

```
int main() {
```

```
    int array1[10];
    cout << "Enter the number of array:" << endl;
    for (int i=0; i<10; i++){
```

```
        cin >> array1[i];
    }
```

```
    cout << "odd Number:" << endl;
    for (int i=0; i<10; i++){
        if (array1[i]%2!=0){

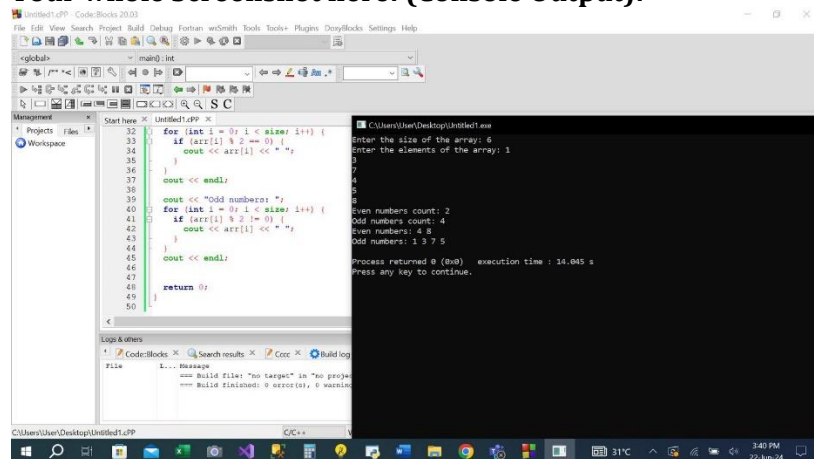
        }
    }
```

```
    cout << "Even Number:" << endl;
    for (int i=0; i<10; i++){
        if (array1[i]%2==0){

        }
    }
```

```
    return 0;
}
```

Your whole Screenshot here: (Console Output):



3. Write a function that takes TWO parameters to print all the odd numbers between a given range. Input the starting value of the range and ending value of the range. Then, send them as the parameters to your function.

For example,

Output:

Starting value: 12

Ending value: 23

13 15 17 19 21 23

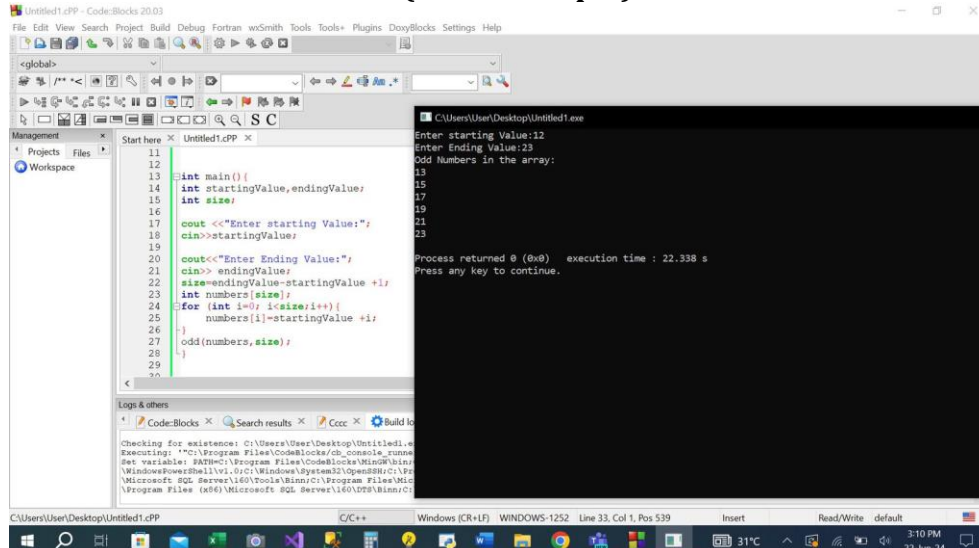
Your code here:

```
#include <iostream>
using namespace std;
void odd(int array1[],int n){
cout<<"Odd Numbers in the array:"<< endl;
for (int i=0; i<n; i++){
    if (array1[i]%2!=0){
        cout <<array1[i]<<endl;
    }
}
}
int main(){
int startingValue,endingValue;
int size;

cout <<"Enter starting Value:";
cin>>startingValue;

cout<<"Enter Ending Value:";
cin>> endingValue;
size=endingValue-startingValue +1;
int numbers[size];
for (int i=0; i<size;i++){
    numbers[i]=startingValue +i;
}
odd(numbers,size);
}
```

Your whole Screenshot here: (Console Output):



4. Write a program to perform Insert a value in following scenario:

- Add 100 at the end of the array
- Add 200 in index number 4
- Add 300 in the beginning of the array

For example,

Output:

Given array: 1 2 3 4 5 6 7 8 9 10

Output array after addition: 300 1 2 3 4 200 5 6 7 8 9 10 100

Your code here:

```
#include <iostream>
using namespace std;
void insertAtEnd(int arr[], int n, int value, int index)
{
    if (index == n) {
        arr[n] = value;
    }
    else{
        for (int i = n - 1; i >= index; i--)
        {
            arr[i + 1] = arr[i];
        }
        arr[index] = value;
    }
    n++;
}

void insertAtIndex(int arr[], int n, int value, int index)
{
    for (int i = n - 1; i >= index; i--)
    {
        arr[i + 1] = arr[i];
    }
    arr[index] = value;
    n++;
}

void insertAtBeginning(int arr[], int n, int value)
{
    for (int i = n - 1; i >= 0; i--)
    {
        arr[i + 1] = arr[i];
    }
    arr[0] = value;
    n++;
}

int main()
{
    int arr[20] = {1, 2, 3, 4, 5};
    int n = 5;
```

```

cout << "The array is: " << endl;
for (int i = 0; i < n; i++)
{
    cout << arr[i] << endl;
}

insertAtEnd(arr, n, 100, 5);
n++;

insertAtBeginning(arr, n, 300);
n++;

insertAtIndex(arr, n, 200, 4);
n++;

cout << "After insert: " << endl;
for (int i = 0; i < n; i++)
{
    cout << arr[i] << endl;
}
}

```

Your whole Screenshot here: (Console Output):

The screenshot displays the Code-Blocks IDE interface. The main editor window shows a C++ program with the following code:

```

50     cout << arr[i] << endl;
51 }
52
53     insertAtEnd(arr, n, 100, 5);
54     n++;
55
56     insertAtBeginning(arr, n, 300);
57     n++;
58
59     insertAtIndex(arr, n, 200, 4);
60     n++;
61
62     cout << "After insert: " << endl;
63     for (int i = 0; i < n; i++)
64     {
65         cout << arr[i] << endl;
66     }
67 }
68

```

The console output on the right shows the execution results:

```

C:\Users\User\Desktop\Untitled1.exe
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5. Write a program to perform deletion a value in following scenario:

- Delete last value
- Delete value 5
- Delete first value

For example,

Output:

Given array: 1 2 3 4 5 6 7 8 9 10

Output array: 2 3 4 6 7 8 9

Your code here:

```
#include <iostream>
```

```
#include <cstdlib>
```

```
#include <ctime>
```

```
using namespace std;
```

```
void deleteFromArrayLast(int arr[], int& size) {
```

```
    if (size > 0) {
```

```
        size--;
```

```
    } else {
```

```
        cout << "Array is already empty." << endl;
```

```
    }
```

```
}
```

```
void deleteFromIndex(int arr[], int& size, int index) {
```

```
    if (index < 0 || index >= size) {
```

```
        cout << "Invalid index." << endl;
```

```
        return;
```

```
    }
```

```
    for (int i = index; i < size - 1; ++i) {
```

```
        arr[i] = arr[i + 1];
```

```
    }
```

```
    size--;
```

```
}
```

```
int main() {
```

```
const int MAX_SIZE = 25;

int arr[MAX_SIZE];

int size = MAX_SIZE;

for (int i = 0; i < size; ++i) {

    arr[i] = i + 1;

}

cout << "Initial array: ";

for (int i = 0; i < size; ++i) {

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

}

cout << endl;

deleteFromArrayLast(arr, size);

cout << "After deleting the last element: ";

for (int i = 0; i < size; ++i) {

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

}

cout << endl;

int index;

cout << "Enter the index to delete: ";

cin >> index;

deleteFromIndex(arr, size, index);

cout << "After deleting the element at index " << index << ": ";

for (int i = 0; i < size; ++i) {

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

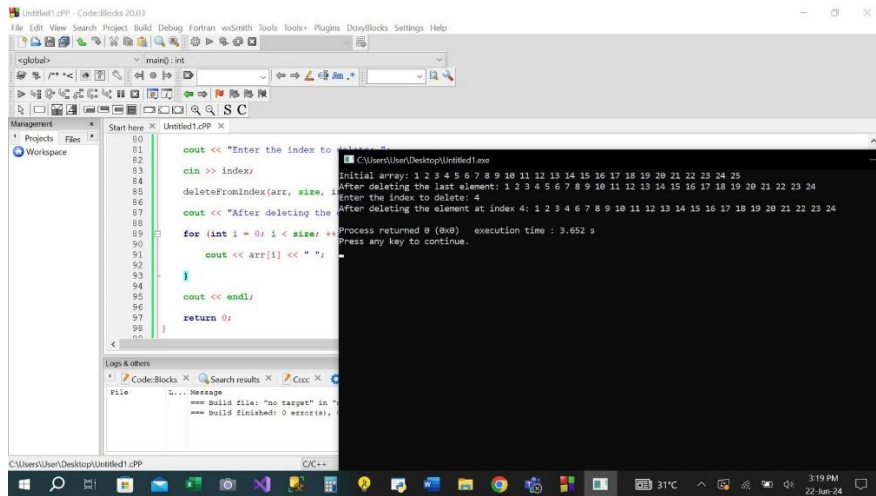
}

cout << endl;

return 0;

}
```

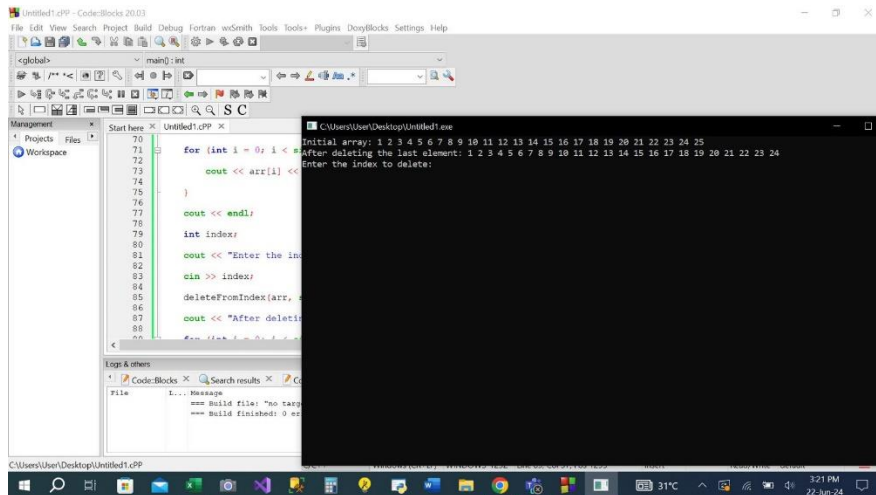
Your whole Screenshot here: (Console Output):



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cout << "Enter the index to delete: ";
cin >> index;
deleteFromIndex(arr, size, index);
cout << "After deleting the element at index " << index << ": ";
for (int i = 0; i < size; ++i)
    cout << arr[i] << " ";
cout << endl;
return 0;

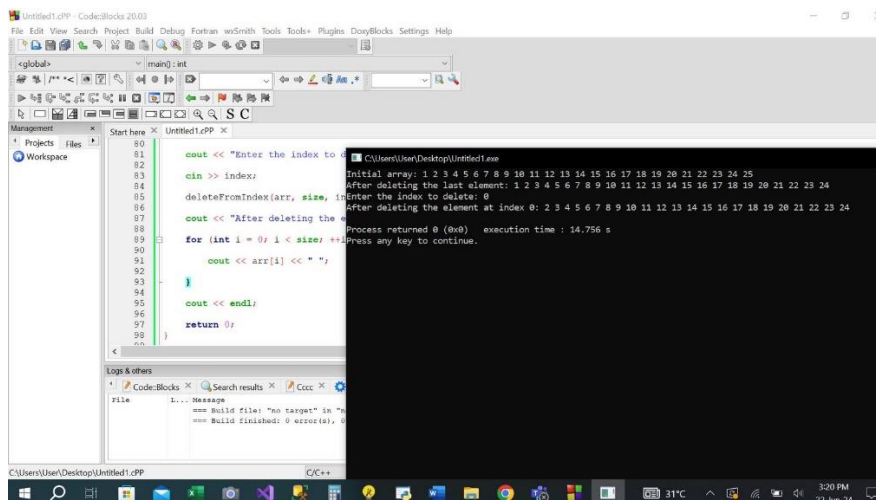
Initial array: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
After deleting the last element: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Enter the index to delete: 4
After deleting the element at index 4: 1 2 3 4 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Process returned 0 (0x0)   execution time : 3.652 s
Press any key to continue.
```



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for (int i = 0; i < size; ++i)
    cout << arr[i] << " ";
cout << endl;
int index;
cout << "Enter the index to delete: ";
cin >> index;
deleteFromIndex(arr, size, index);
cout << "After deleting the element at index " << index << ": ";
for (int i = 0; i < size; ++i)
    cout << arr[i] << " ";
cout << endl;
return 0;

Initial array: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
After deleting the last element: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Enter the index to delete: 0
After deleting the element at index 0: 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Process returned 0 (0x0)   execution time : 14.756 s
Press any key to continue.
```



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cout << "Enter the index to delete: ";
cin >> index;
deleteFromIndex(arr, size, index);
cout << "After deleting the element at index " << index << ": ";
for (int i = 0; i < size; ++i)
    cout << arr[i] << " ";
cout << endl;
return 0;

Initial array: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
After deleting the last element: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Enter the index to delete: 0
After deleting the element at index 0: 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Process returned 0 (0x0)   execution time : 14.756 s
Press any key to continue.
```