

حقوق النشر محفوظة، أسعار الكورسات في المنصة هي أسعار رمزيه جدا، ارجو عدم نشر هذه الوثيقة لان نشرها سيمنعنا من الاستمرار في تقديم العلم للآخرين

ارجو عدم استخدام هذه الوثيقة من غير وجه حق لأنك ستحرم الاف الناس من التعلم

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```
#include <iostream>
using namespace std;
int RandomNumber(int From, int To)
{
    //Function to generate a random number
    int randNum = rand() % (To - From + 1) + From;
    return randNum;
}
void FillArrayWithRandomNumbers(int arr[100], int& arrLength)
    cout << "\nEnter number of elements:\n";</pre>
    cin >> arrLength;
    for (int i = 0; i < arrLength; i++)</pre>
        arr[i] = RandomNumber(1, 100);
}
void PrintArray(int arr[100], int arrLength)
    for (int i = 0; i < arrLength; i++)</pre>
        cout << arr[i] << " ";
    cout << "\n";
}
short FindNumberPositionInArray(int Number, int arr[100], int
arrLength)
{
    /*This function will search for a number in array and return
its index, or return -1 if it does not exists*/
    for (int i = 0; i < arrLength; i++)</pre>
        if (arr[i] == Number)
            return i;// and return the index
    }
    //if you reached here, this means the number is not found
    return -1;
}
```



```
int ReadNumber()
    int Number;
    cout << "\nPlease enter a number to search for?\n";</pre>
    cin >> Number;
    return Number;
}
int main()
    //Seeds the random number generator in C++, called only once
    srand((unsigned)time(NULL));
    int arr[100], arrLength;
    FillArrayWithRandomNumbers(arr, arrLength);
    cout << "\nArray 1 elements:\n";</pre>
    PrintArray(arr, arrLength);
    int Number = ReadNumber();
    cout << "\nNumber you are looking for is: " << Number << endl;</pre>
    short NumberPosition = FindNumberPositionInArray(Number, arr,
arrLength);
if (NumberPosition == −1)
        cout << "The number is not found :-(\n";</pre>
    else
    {
        cout << "The number found at position: ";</pre>
        cout << NumberPosition << endl;</pre>
        cout << "The number found its order : ";</pre>
        cout << NumberPosition + 1 << endl;</pre>
    }
    return 0;
}
```