

QUESTION 1-J

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#include <iostream>
using namespace std;

int getMissingNumber(int arr[], int n) {
    //get total if the missing number is presented.
    int arrtotal = (n + 1) * (n + 2) / 2;
    for (int i = 0; i < n; i++) {
        // decerement til the end of the array
        arrtotal -= arr[i];
    }
    return arrtotal;
}

int main()
{
    int arr[] = { 1, 2, 3, 5, 6, 7 };
    int arrsize = sizeof(arr) / sizeof(arr[0]);
    int missednum = getMissingNumber(arr, arrsize);
    cout << "given array :";
    for (int i = 0; i < arrsize; i++) {
        cout << arr[i] << ",";
    }
    cout << endl;
    cout << "the missing number is: " << missednum << endl;
}
```