```
#include<iostream>
using namespace std;
int main()
{
    int arr[]={5,2,8,9,12,3,1,6,13,15,7,10};
    int length=sizeof(arr)/sizeof(int);
    int zeros[5], ones[5], twos[5];
    // "zeros" array -> n%3=0, "ones" array -> n%3=1, "twos" array -> n%3=2
    int index_for_zeros=0,index_for_ones=0,index_for_twos=0;
    // to keep track of the number of elements placed in the arrays
    for(int i=0; i<length; i++){</pre>
        if(arr[i]%3==0){
             zeros[index for zeros]=arr[i];
            ++index_for_zeros;
        else if(arr[i]%3==1){
             ones[index for ones]=arr[i];
            ++index_for_ones;
         else{
             twos[index_for_twos] = arr[i];
            ++index for twos;
        }
    }
RESULTANT ARRAY: ZEROES -> 9, 12, 3, 6, 15
                  ONES -> 1, 13, 7, 10
                  TWOS -> 5, 2, 8
```