**Question 3: Sum of All Subset XOR Totals**

#include <iostream>

using namespace std;

int recursion (int i, int x, int arr[], int size)

{

if (i == size)

return x;

int choice1 = recursion (i + 1, x ^ arr[i], arr, size);

int choice2 = recursion (i + 1, x, arr, size);

return choice1 + choice2;

}

int Sum(int arr[], int size)

{

return recursion (0, 0, arr, size);

}

int main()

{

int arr[] = { 5,1,6 };

int size = sizeof(arr) / sizeof(arr[0]);

cout << Sum(arr, size);

}