40. Possible subsets

#include <stdio.h>

#include <stdlib.h>

void generateSubsets(int nums[], int size)

{

int numSubsets = 1 << size;

for (int i=0;i<numSubsets;i++)

{

printf("[");

int first=1;

for (int j=0;j<size;j++)

{

if(i&(1<<j))

{

if(!first)

{

printf(", ");

}

printf("%d", nums[j]);

first = 0;

}

}

printf("]\n");

}

}

int main()

{

int n;

printf("Enter the number of elements: ");

scanf("%d", &n);

int nums[n];

printf("Enter %d elements:\n", n);

for (int i = 0; i < n; i++)

{

scanf("%d", &nums[i]);

}

generateSubsets(nums, n);

return 0;

}

