This is the code for the discussed bruteforce approach for the problem.

```
#include <stdio.h>

int countZeroSumSubarrays(int arr[], int n) {
int count = 0;

for (int i = 0; i < n; i++) {
int sum = 0;
for (int j = i; j < n; j++) {
sum += arr[j];
if (sum == 0) {
count++;
}
}
}

return count;
}

int main() {
int arr[] = {1, -1, 2, -2, 3, -3, 4, -4};
int n = sizeof(arr) / sizeof(arr[0]);

printf("Total subarrays with sum 0: %d\n", countZeroSumSubarrays(arr, n));
return 0;
}
```