

```

*****Program 20.1.c *****
//sample test case:
//1 4 -3 5 9
//1 4 -3 -5 9

#include <stdio.h>
int main() {
    int len;
    scanf("%d", &len);
    int A[len], prefixSum[len];
    int i,j;

    for(i = 0; i < len; i++) {
        scanf("%d",&A[i]);
    }

    prefixSum[0] = A[0];
    printf("%d ", prefixSum[0]);
    for(i = 1; i < len; i++) {
        prefixSum[i] = prefixSum[i-1] + A[i];
        printf("%d ", prefixSum[i]);
    }
    printf("\n");

    int max = -999999;
    int subsum;
    int beg = 0 ;
    int end = 0;

    for(i = 0; i < len; i++) {
        for(j = 0; j <= i; j++) {
            subsum = prefixSum[i] - prefixSum[j] + A[j];
            if(subsum > max) {
                max = subsum;
                beg = j;
                end = i;
            }
        }
    }

    printf("Max sum: %d Beg: %d End: %d\n",max, beg, end);
}

```