```c
#include<stdio.h>

int maxsum(int *A, int n)
{
        int current_sum=0,max_so_far=0,i;

        for(i=0;i<n;i++)
        {
                current_sum+=A[i];

                if(max_so_far<current_sum)
                max_so_far=current_sum;
    }

            return max_so_far;

}


int main()
{
        int A[10],j,n,i;

        printf("\nEnter the number of elements  : ");
        scanf("%d", &n);

        printf("\nEnter the array elements  : ");
        for(i=0;i<n;i++)
        {
        scanf("%d",  &A[i]);
        printf("\n");
        }

        printf("\nThe array elements are : ");
        for(i=0;i<n;i++)
        {
        printf("%d  ", A[i]);
        }

        printf("\nThe maximum sum is  : ");
        int ans=maxsum(A, n);
        printf("%d", ans);

        return 0;
}
```