## // MSS DAC Approach

```
#include <stdio.h>
#include <stdlib.h>
#include inits.h>
int main()
{
  int A[] = \{-2, -5, 6, -2, -3, 1, 5, -6\}; // Array Value
  int n = 8; // Array Index = 8
  int low = 0;
  int high = n-1;
  int maxCrossingSum(int A[], int l, int mid, int r){
     int sum = 0;
     int lsum = INT_MIN;
     for(int i=mid;i>=0;i--){
       sum=sum+A[i];
       if(sum>lsum){
          lsum = sum;
```

```
sum = 0;
  int rsum = INT_MIN;
  for(int i = mid+1; i <= r; i++){
    sum=sum+A[i];
    if(sum>rsum){
       rsum = sum;
  return (lsum+rsum);
}
int maxSubarraySum(int A[], int low, int high){
  if(low == high){
    return A[high];
  } // Checking if index have more then one value
  else{
    int mid = low + (high - low)/2;
    int left_sum = maxSubarraySum(A,low,mid);
```

```
int right_sum = maxSubarraySum(A,mid+1,high);
       int crossing_Sum =
maxCrossingSum(A,low,mid,high);
       return (left_sum,right_sum,crossing_Sum);
  int result = maxSubarraySum(A,low,high);
  printf("%d",result);
  return 0;
// Output:
Process returned 0 (0x0)
Press any key to continue.
// Time Complexity: (nlog n)
```