Find the maximum sub array sum

```
#include <stdio.h>
#include <stdlib.h>
#include inits.h>
int max(int a, int b)
{
       return a > b? a: b;
int maximum(int a, int b, int c)
       return max(max(a, b), c);
int middleCrossingSum(int *arr, int start, int middle, int end)
  // Include elements on left of mid.
  int sum = 0, leftSum = INT_MIN, rightSum = INT_MIN, index;
  for (index = middle; index >= start; index--)
    sum += arr[index];
    if (sum > leftSum)
       leftSum = sum;
  }
  sum = 0;
  for (index = middle+1; index <= end; index++)
    sum += arr[index];
    if (sum > rightSum)
      rightSum = sum;
  return leftSum + rightSum;
int maximumSubArraySum(int *arr, int start, int end)
       if(start == end)
              return arr[start];
       int middle = (start + end) / 2;
       return maximum(maximumSubArraySum(arr, start, middle),
                       maximumSubArraySum(arr, middle+1, end),
                       middleCrossingSum(arr, start, middle, end));
}
int main()
       int *arr, size;
       printf("Enter size of an array\n");
```