

FIND MAXIMUM AND MINIMUM

```
Algorithm MaxMin(i, j, max, min)
{
    if(i = j) then
        max := min := A[i];
    else if(i = j-1) then
    {
        if(A[i] < A[j]) then
        {
            max := A[j];
            min := A[i];
        }
        else
        {
            max := A[i];
            min := A[j];
        }
    }
    else
    {
        mid := (i + j)/2;
        MaxMin(i, mid, max, min)
        MaxMin(mid+1, j, ,max1, min1);
        if(max < max1) then
            max := max1;
        if(min > min1) then
            min := min1;
    }
}
```