Find Max & Min from A List using Divide and Conquer

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Prof. Jyothi wants to find the **Max** and **Min** Marks secured in an examination, which was attempted by **N** Students, with less time complexity.

Input:

first line contains 1 value, the number of students second line contains N student marks

Output:

Two Values, first one is Max and second one is Min

_____ program.c _____ #include int i,j; void findmaxmin(int a[],int s, int e, int *max,int *min){ $if(s==e){}$ *max = *min = a[s]; else if(s == e-1){ $if(a[s] > a[e]){$ // if easy solution *max = a[s];*min = a[e]; } else{ *max = a[e]; *min = a[s]; } } else{ int mid = (s+e)/2; // sorting for max solution findmaxmin(a,s,mid,max,min); int max1,min1; findmaxmin(a,mid+1,e,&max1,&min1); $if(max1 > *max){$ *max = max1;} if(min1 < *min){</pre> *min = min1;

about:blank 1/2

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}
}
void main(){
  int n,max,min;
  scanf("%d",&n); // taking the input as n i.e number of students
  int a[n];
  for(i=0;i
```

Test Cases

Test Cases	Status
Test Case 1	Pass

about:blank 2/2