```c
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

void MaxMin(int a[],int l,int r,int * m,int * mi) {
        int max=*m;
        int min = *mi;
        if(l==r)
                max=min=a[l];
        else if(l==r-1) {
                if(a[l]>a[r]) {
                        max=a[l];
                        min=a[r];
                } else {
                        min=a[l];
                        max=a[r];
                }
        }
        else {
                int max1,min1;
                int mid = l + (r-l)/2;
                MaxMin(a,l,mid,&max,&min);
                MaxMin(a,mid+1,r,&max1,&min1);
                if(min1<min)
                        min=min1;
                if(max1>max)
                        max=max1;

        }
        *m=max;
        *mi=min;
}

int main() {
        clock_t start_t, end_t, total_t;
        printf("Enter Number of Input\n");
        int n,i;
        scanf("%d",&n);
        int a[n];
        for(i=0;i<n;i++) {
                a[i]= rand()%n+1;
        }
        for(i=0;i<n;i++) {
                printf(" %d ",a[i]);
        }
        printf("\n");
        int max;
        int min;
        start_t = clock();
        MaxMin(a,0,n-1,&max,&min);
        end_t = clock();
        printf("Max %d, Min %d \n",max,min);
        total_t = ((double)(end_t - start_t) / CLOCKS_PER_SEC)*CLOCKS_PER_SEC;
    printf("Total time taken by CPU: %f\n", (double)total_t/(double)CLOCKS_PER_SEC
);
}
```