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#include<stdio.h>
int partition(int a[],int low,int high)
      int i,j,pivot,temp;
      pivot=a[high];
      i=low-1;
      for(j=low;j<high;j++)</pre>
            if(a[j]<pivot)</pre>
                  i++;
                  temp=a[i];
                  a[i]=a[j];
                  a[j]=temp;
            }
      }
       temp=a[i+1];
       a[i+1]=a[high];
       a[high]=temp;
       return(i+1);
}
void quicksort(int a[],int low,int high)
       int pi;
       if(low<high)</pre>
       pi=partition(a,low,high);
       quicksort(a,low,pi-1);
       quicksort(a,pi+1,high);
}
int main()
{
      int i,n,a[20];
      printf("\n Enter number of element in array less than 20 : ");
      scanf("%d",&n);
      printf("\n Enter %d element in array \n",n);
      for(i=0;i<n;i++)
      {
            scanf("%d",&a[i]);
      }
      printf("\n Array before sort");
      for(i=0;i<n;i++)
            printf(" %d \t",a[i]);
      }
      quicksort(a,0,n-1);
      printf("\n Array after sort");
      for(i=0;i<n;i++)
```

```
printf(" %d \t",a[i]);
}
return 0;
}
```