

```

def main():
    global array
    #Creating the list of roll numbers
    array=[]
    n=int(input("Enter the number of students:"))
    print("Input the percentage of students:")
    for i in range(0,n):
        b=float(input())
        array.append(b)
    print('Unsorted Array')
    print(array)

# function to find the partition position

def partition(array, low, high):
    # choose the rightmost element as pivot
    pivot = array[high]

    # pointer for greater element
    i = low - 1

    # traverse through all elements
    # compare each element with pivot
    for j in range(low, high):
        if array[j] <= pivot:
            # if element smaller than pivot is found
            # swap it with the greater element pointed by i
            i = i + 1

    # swapping element at i with element at j
    (array[i], array[j]) = (array[j], array[i])

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# swap the pivot element with the greater element specified by i
(array[i + 1], array[high]) = (array[high], array[i + 1])
```

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# return the position from where partition is done
return i + 1
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# function to perform quicksort
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def quickSort(array, low, high):
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    if low < high:
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        # find pivot element such that
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        # element smaller than pivot are on the left
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```
        # element greater than pivot are on the right
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```
        pi = partition(array, low, high)
```

```
        # recursive call on the left of pivot
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```
        quickSort(array, low, pi - 1)
```

```
        # recursive call on the right of pivot
```

```
        quickSort(array, pi + 1, high)
```

```
main()
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```
size=len(array)
```

```
quickSort(array, 0, size - 1)
```

```
print('\nSorted Array in Ascending Order:')  
print(array)
```

```
print('\nTop five scores are:')  
print(array[:5])
```