DSA LAB
COC2910

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zaid Cpp College Assignments $ g++ Quick_sort.cpp
zaid Cpp College Assignments $ ./a.out
Enter the number of elements to generate in the array : 7

The Array generate is :   2 7 0 6 5 1 2

Pivot as the first Element :-

0 1 2 2 5 7 6
0 1 2 2 5 7 6
0 1 2 2 5 6 7
0 1 2 2 5 6 7
0 1 2 2 5 6 7
Total Comparisons :      12

Pivot at Median:-

0 1 2 2 5 7 6
0 1 2 2 5 6 7
0 1 2 2 5 6 7
Total Comparisons :      10

Pivot as mean:-

2 0 1 2 5 7 6
2 0 1 2 5 6 7
2 0 1 2 5 6 7
0 1 2 2 5 6 7
0 1 2 2 5 6 7
0 1 2 2 5 6 7
Total Comparisons :      20

Pivot at the middle element :-

2 0 5 1 2 6 7
2 0 1 2 5 6 7
0 2 1 2 5 6 7
0 1 2 2 5 6 7
0 1 2 2 5 6 7
Total Comparisons :      16zaid Cpp College Assignments $ 
```