

Enter a value for n

25

Enter a value for the kth smallest value

5

K'th smallest element for quickselect's processing is:

23

The CPU time of quickselect is : 15500

0 16 16 22 23 25 30 31 65 51 63 49 46 70 62 37 62 74 99 78 77 99 81 89 81

K'th smallest element for four-fifth's processing is:

23

The CPU time of four-fifths is : 712100

0 16 16 22 23 25 30 31 51 65 46 49 62 63 70 37 62 74 78 99 77 81 81 89 99

Enter a value for n

10

Enter a value for the kth smallest value

5

K'th smallest element for quickselect's processing is:

26

The CPU time of quickselect is : 13400

4 8 15 21 26 45 49 83 97 90

K'th smallest element for four-fifth's processing is:

26

The CPU time of four-fifths is : 929800

4 8 15 21 26 45 49 83 90 97

Enter a value for n

50

Enter a value for the kth smallest value

5

K'th smallest element for quickselect's processing is:

7

The CPU time of quickselect is : 23800

6 0 5 7 7 9 21 22 18 20 23 39 36 39 24 24 31 29 36 39 36 34 35 39 43 53 51 45 51 59 65 54 45  
52 70 85 75 81 77 80 76 77 77 85 78 87 91 88 98 93

K'th smallest element for four-fifth's processing is:

7

The CPU time of four-fifths is : 713800

0 5 6 7 7 9 18 20 21 22 23 24 24 29 31 34 35 36 36 36 39 39 98 39 43 45 51 51 53 59 45 52 54  
65 70 75 77 80 81 85 76 77 77 78 85 87 88 91 93 39

Enter a value for n

100

Enter a value for the kth smallest value

25

K'th smallest element for quickselect's processing is:

24

The CPU time of quickselect is : 78100

8 2 11 4 11 4 5 3 1 5 4 11 12 13 16 15 16 18 14 15 19 15 21 22 24 25 26 25 27 27 28 28 31 35  
43 49 39 53 51 55 34 39 42 35 49 49 36 44 32 49 55 53 36 42 31 56 86 79 86 63 89 97 97 67  
81 65 65 87 88 93 76 69 79 68 56 87 83 60 76 72 62 87 81 86 63 60 97 58 66 84 71 65 57 90  
89 72 67 80 71 66

K'th smallest element for four-fifth's processing is:

24

The CPU time of four-fifths is : 2764000

2 4 8 11 11 1 3 4 5 5 4 11 12 13 14 15 15 15 16 18 16 19 21 22 24 25 25 28 27 27 26 28 31 34  
35 35 39 43 31 32 36 39 42 36 42 44 51 80 49 49 53 55 49 53 55 56 63 79 86 86 67 81 89 97  
97 65 65 87 88 93 56 68 69 76 79 60 72 76 83 87 62 63 81 86 87 58 60 66 84 97 57 65 71 89  
90 66 67 71 72 49

Enter a value for n

75

Enter a value for the kth smallest value

33

K'th smallest element for quickselect's processing is:

52

The CPU time of quickselect is : 19600

9 8 3 7 11 9 0 8 2 14 38 38 30 16 18 16 15 29 30 41 41 40 26 32 42 47 42 42 50 43 44 52 52 56  
54 62 58 63 59 57 60 54 64 68 66 69 80 69 74 71 81 75 74 76 69 82 71 81 83 84 83 84 84 84  
84 85 97 88 87 96 88 85 94 86 88

K'th smallest element for four-fifth's processing is:

52

The CPU time of four-fifths is : 1886600

3 7 8 9 11 0 2 8 9 14 16 18 30 38 38 15 16 29 30 41 26 32 40 41 42 42 42 43 47 50 44 52 52 54  
56 57 58 59 62 63 54 60 64 66 68 69 69 71 74 80 69 74 75 76 81 71 81 82 83 84 83 84 84 84  
84 85 87 88 96 97 85 86 88 88 94

Enter a value for n

100

Enter a value for the kth smallest value

49

K'th smallest element for quickselect's processing is:

40

The CPU time of quickselect is : 13400

15 9 26 22 13 8 18 12 9 22 12 21 14 8 0 27 6 0 7 24 15 12 20 3 23 20 9 5 21 5 11 4 17 7 1 28  
38 34 37 32 33 29 30 31 29 36 39 40 40 44 45 45 47 47 48 71 50 61 95 54 57 83 96 81 85 69  
49 91 55 89 48 63 80 99 58 75 87 59 86 55 87 84 65 77 92 58 97 99 70 69 66 69 48 99 95 77  
53 53 66 50

K'th smallest element for four-fifth's processing is:

40

The CPU time of four-fifths is : 2943600

9 13 15 22 26 8 9 12 18 22 0 8 12 14 21 0 6 7 24 27 3 12 15 20 23 5 5 9 20 21 1 4 7 11 17 28  
32 34 37 38 29 29 30 31 33 36 39 40 40 44 45 45 47 47 48 50 54 61 71 95 57 81 83 85 96 49  
55 69 89 91 48 58 63 80 99 55 59 75 86 87 65 77 84 87 92 58 69 70 97 99 48 66 69 95 99 50  
53 53 66 77

Enter a value for n

150

Enter a value for the kth smallest value

76

K'th smallest element for quickselect's processing is:

42

The CPU time of quickselect is : 76900

0 11 22 21 19 1 5 5 12 6 12 21 1 14 9 11 13 18 8 3 20 0 12 11 15 13 9 24 4 19 12 3 21 11 1 16 0  
5 12 0 4 8 4 11 9 23 25 25 26 25 27 34 35 31 40 31 32 39 32 28 29 34 29 28 28 38 34 35 33 39  
33 27 35 34 42 42 42 43 43 44 44 48 54 51 54 58 52 59 52 55 54 54 50 59 55 60 60 60 62 86  
68 63 85 96 83 95 76 94 94 73 65 86 89 88 97 78 76 89 79 71 78 69 74 95 92 99 98 69 72 90  
65 64 64 70 87 79 93 73 99 87 70 79 88 63 93 90 90 92 81 99

K'th smallest element for four-fifth's processing is:

42

The CPU time of four-fifths is : 1122500

0 11 19 21 22 1 5 5 6 12 1 9 12 14 21 3 8 11 13 18 0 11 12 15 20 4 9 13 19 24 1 3 11 12 21 0 0  
5 12 16 4 4 8 9 11 23 25 25 25 26 27 31 34 28 31 32 32 28 28 29 29 34 33 34 35 27 33 34 35  
35 38 39 39 40 42 42 42 43 43 50 44 48 44 51 55 52 54 54 54 52 54 55 59 59 60 60 60 62 63  
68 65 71 73 76 76 69 69 72 74 78 64 64 65 70 73 70 63 58 78 89 99 86 94 92 95 94 95 90 98  
99 83 86 88 89 87 97 79 87 93 99 85 96 79 88 93 92 81 90 90 79

Enter a value for n

55

Enter a value for the kth smallest value

34

K'th smallest element for quickselect's processing is:

53

The CPU time of quickselect is : 43600

37 23 35 19 35 27 25 24 40 39 14 27 23 2 2 0 40 7 7 17 11 37 12 42 43 44 47 49 49 51 50 51

53 53 55 60 87 90 68 83 82 67 63 69 61 77 88 68 63 88 91 92 97 91 98

K'th smallest element for four-fifth's processing is:

53

The CPU time of four-fifths is : 2209200

19 23 35 35 24 25 27 2 2 14 23 27 0 7 7 17 11 12 37 37 39 40 42 43 44 47 49 49 51 50 51 53

40 53 55 60 68 83 87 90 61 63 67 69 82 63 68 77 88 88 97 91 91 92 98

PS C:\Spring Programing\CS3310\Project2>