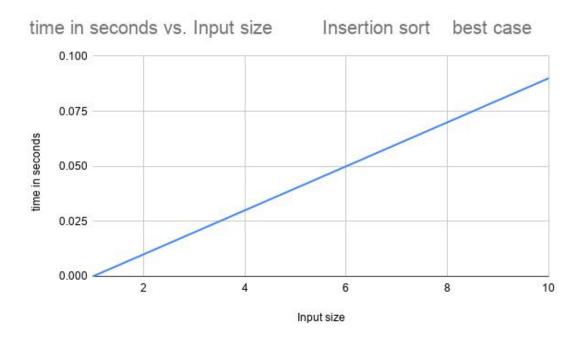
```
Insertion sort output:
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 1
Do you want to enter the elements?
Enter the elments of the array: 1
After sorting:
time taken = 0.000001 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 2
Do you want to enter the elements?
Enter the elments of the array: 1 2
After sorting:
1 2
time taken = 0.010001 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 3
Do you want to enter the elements?
Enter the elments of the array: 1 2 3
After sorting:
123
time taken = 0.020002 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 4
Do you want to enter the elements?
Enter the elments of the array: 1 2 3 4
After sorting:
1234
time taken = 0.030001 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 5
Do you want to enter the elements?
Enter the elments of the array: 1 2 3 4 5
After sorting:
12345
time taken = 0.040001 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 7
Do you want to enter the elements?
Enter the elments of the array: 1 2 3 4 5 6 7
After sorting:
1234567
```

time taken = 0.060003 seconds

Input size	time in seconds
1	0.000001
2	0.010001
3	0.020002
4	0.030001
5	0.040001
7	0.060003

Delay time used is 0.01 s



```
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 2
Do you want to enter the elements?

y
Enter the elments of the array: 2 1
After sorting:
1 2

time taken = 0.020003 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 3
Do you want to enter the elements?

y
Enter the elments of the array: 3
3 2 1
After sorting:
```

```
time taken = 0.040004 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 4
Do you want to enter the elements?
Enter the elments of the array: 4 3 2 1
After sorting:
1234
time taken = 0.090006 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: y
Do you want to enter the elements?
Enter the elments of the array: After sorting:
time taken = 0.000001 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 5
Do you want to enter the elements?
Enter the elments of the array: 5 4 3 2 1
After sorting:
12345
time taken = 0.140004 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 6
Do you want to enter the elements?
Enter the elments of the array: 6 5 4 3 2 1
After sorting:
123456
time taken = 0.200008 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 8
Do you want to enter the elements?
Enter the elments of the array: 8 7 6 5 4 3 2 1
After sorting:
12345678
time taken = 0.350018 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 10\
Do you want to enter the elements?
After sorting:
729 2003 2382 2767 2971 3995 4525 4806 6226 6903
time taken = 0.400020 seconds
~/ada/lab5/ $ ./insertionsort
How many elements do you want to enter: 10
Do you want to enter the elements?
Enter the elments of the array: 9 8 7 6 5 4 3 2 1 0
After sorting:
```

0123456789

time taken = 0.540022 seconds \sim /ada/lab5/ \$

input size	time in seconds
1	0.000001
2	0.020003
3	0.040004
4	0.090006
5	0.140004
6	0.200008
8	0.350018
10	0.540022

Delay time used is 0.01 s

time in seconds vs. input size insertion sort worst case Mahantesh Gattina

