

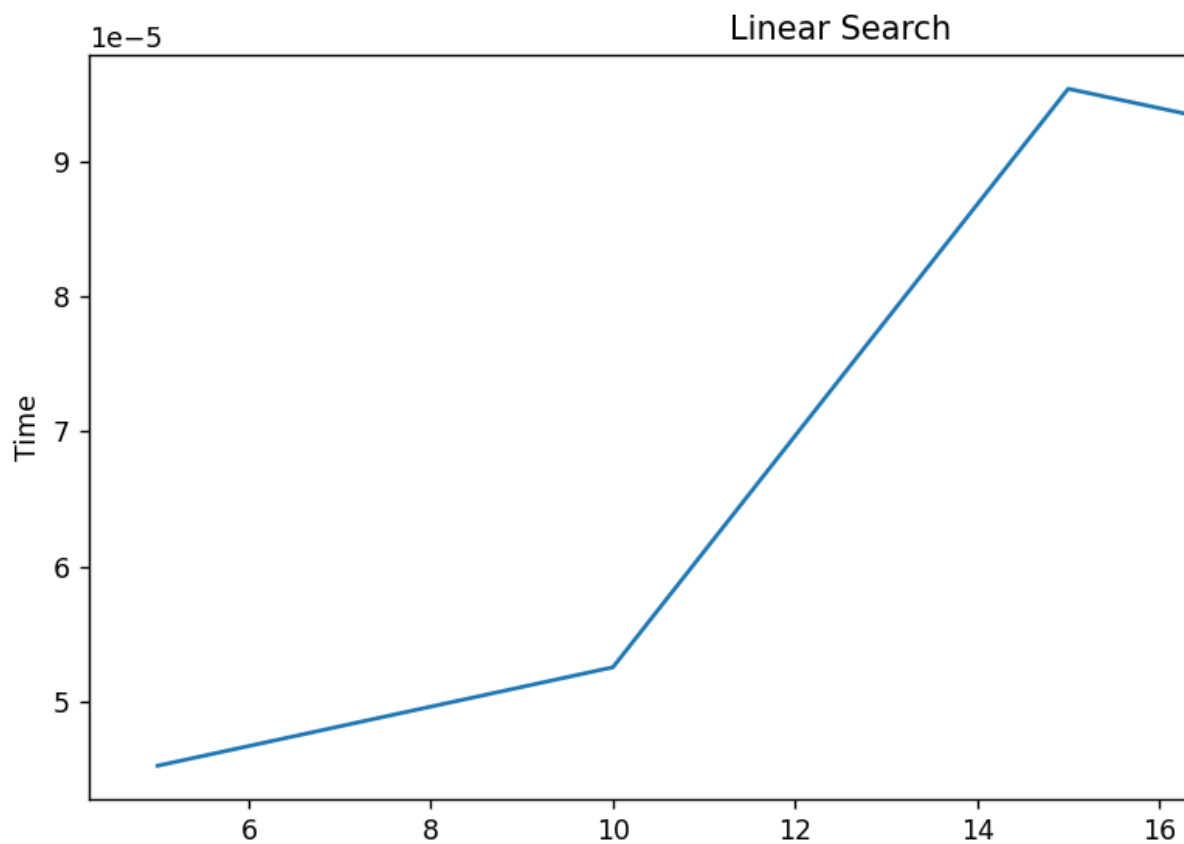
LAB1: LINEAR AND BINARY SEARCH

1) Linear Search:

Input and output

```
PS D:\DAA lab> python -u "d:\DAA lab\lab2\linsearch.py"
5
56
78
65
4
7
3
Number not found
The time difference is : 1.00000761449337e-06
```

Time complexity:



2) Binary search:

Input:

```
a=[[1,2,3],[1,2,3,4,5,6,7,8],[1,2,3,4,5,6,7,8,9,10,11,12,13,14],[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20]]  
b=[3,8,14,20]
```

Output: Returns the indices of the key.

```
PS D:\DAA lab> python -u "d:\DAA lab\lab2\binarysearch.py"  
[3, 8, 14, 20]  
0  
1  
2  
3
```

Graph:

