Labb 3

Körnings tider för 3.2

C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 1000
Excekveringstiden: 10
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 1000
Excekveringstiden: 11
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 1000
Excekveringstiden: 11
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 1000
Excekveringstiden: 11
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 1000</pre>

Excekveringstiden: 10

```
:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 1000
Excekveringstiden: 12
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt</pre>
Symbol Table:
words = 1000
Excekveringstiden: 10
:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 1000
Excekveringstiden: 11
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt</pre>
Symbol Table:
words = 1000
Excekveringstiden: 10
::\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 1000
Excekveringstiden: 10
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 1000
Excekveringstiden: 9
```

10000:

```
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt</pre>
Symbol Table:
words = 10000
Excekveringstiden: 36
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt</pre>
Symbol Table:
words = 10000
Excekveringstiden: 36
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 10000
Excekveringstiden: 39
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 10000
Excekveringstiden: 43
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt</pre>
Symbol Table:
words = 10000
Excekveringstiden: 38
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt</pre>
Symbol Table:
words = 10000
Excekveringstiden: 44
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt</pre>
Symbol Table:
words = 10000
Excekveringstiden: 38
```

```
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 10000
Excekveringstiden: 42
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 10000
Excekveringstiden: 40
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java two < filtrerad2.txt
Symbol Table:
words = 10000
Excekveringstiden: 36
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>
```

Körnings tider för 3.3

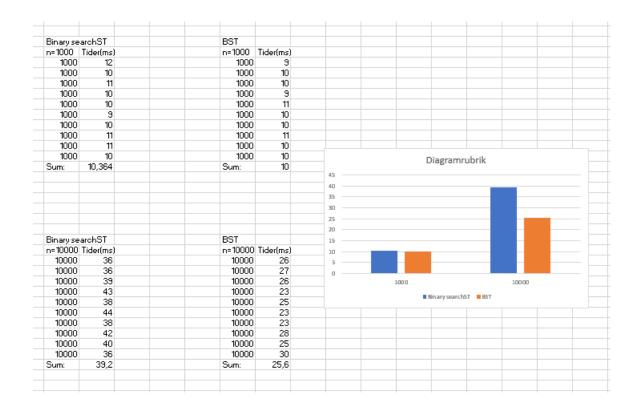
```
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt</pre>
Symbol Table:
words = 1000
Excekveringstiden: 9
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt
Symbol Table:
words = 1000
Excekveringstiden: 10
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt</pre>
Symbol Table:
words = 1000
Excekveringstiden: 10
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt
Symbol Table:
words = 1000
Excekveringstiden: 9
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt
Symbol Table:
words = 1000
Excekveringstiden: 11
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt</pre>
Symbol Table:
words = 1000
Excekveringstiden: 10
```

```
©%. C:\WINDOWS\system32\cmd.exe
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt</pre>
Symbol Table:
words = 1000
Excekveringstiden: 10
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt</pre>
Symbol Table:
words = 1000
Excekveringstiden: 11
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt</pre>
Symbol Table:
words = 1000
Excekveringstiden: 10
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt</pre>
Symbol Table:
words = 1000
Excekveringstiden: 10
```

10000

```
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>javac three.java
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt
Symbol Table:
words = 10000
Excekveringstiden: 26
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt</pre>
Symbol Table:
words = 10000
Excekveringstiden: 27
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt
Symbol Table:
words = 10000
Excekveringstiden: 26
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt
Symbol Table:
words = 10000
Excekveringstiden: 23
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt</pre>
Symbol Table:
words = 10000
Excekveringstiden: 25
C:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.txt
Symbol Table:
words = 10000
Excekveringstiden: 23
```

```
:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.
ymbol Table:
ords = 10000
xcekveringstiden: 23
:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.
ymbol Table:
ords = 10000
xcekveringstiden: 23
:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.
ymbol Table:
ords = 10000
xcekveringstiden: 28
:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.
ymbol Table:
ords = 10000
xcekveringstiden: 25
:\Users\noete\IdeaProjects\3LabbAlgDat\src>java three < filtrerad2.
ymbol Table:
ords = 10000
xcekveringstiden: 30
```



Knappt någon skillnad mellan söknings metoderna vid 1000 element men vid 10000 så är BST snabbare. I avarege case så kör ju BST i lg(n) medans binary search ST körs i n.