

Quiz 9

COMP9021 Principles of Programming

2015 session 2

Sample outputs

```
$ python3 quiz_9.py
Enter two integers , the second one being positive: 0 3
Here is the tree that has been generated:
```

```
      403958
     /      \
    /          \
885440          794772
```

The maximum difference between consecutive leaves is: 0

```
$ python3 quiz_9.py
Enter two integers , the second one being positive: 0 4
Here is the tree that has been generated:
```

```
      403958
     /      \
    /          \
885440          794772
```

```
      933488
```

The maximum difference between consecutive leaves is: 138716

```
$ python3 quiz_9.py
Enter two integers , the second one being positive: 0 6
Here is the tree that has been generated:
```

```
      42450
     /      \
    /          \
   /              \
  /                \
403958              441001
 /      \          /      \
/          \      /          \
885440      794772
```

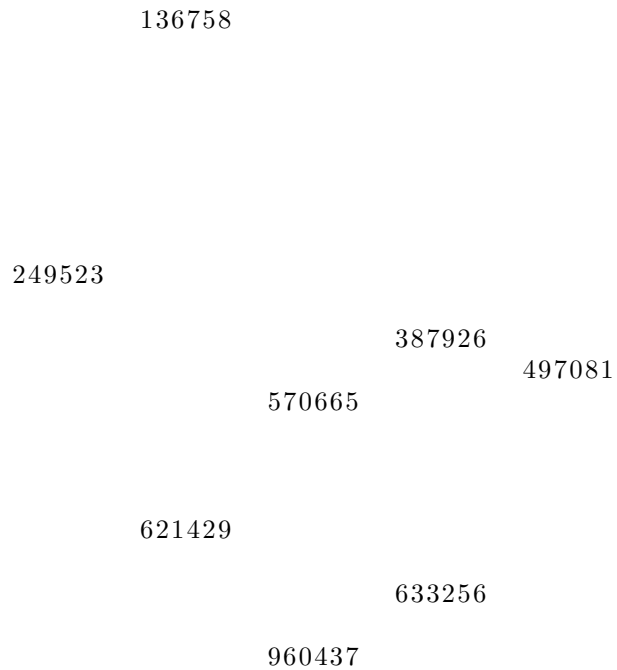
```
      933488
```

The maximum difference between consecutive leaves is: 492487

```
$ python3 quiz_9.py
```

```
Enter two integers, the second one being positive: 3 8
```

```
Here is the tree that has been generated:
```



```
The maximum difference between consecutive leaves is: 360323
```

```
$ python3 quiz_9.py
```

```
Enter two integers, the second one being positive: 3 10
```

```
Here is the tree that has been generated:
```

```
      136758
     /      \
    /         \
   /           \
  /             \
 /               \
249523           387926
                /      \
               /         \
              /           \
             /             \
            /               \
           /                 \
          /                   \
         /                     \
        /                       \
       /                         \
      /                           \
     /                             \
    /                               \
   /                                 \
  /                                   \
 /                                     \
/                                       \
570665                             497081
    /      \
   /         \
  /           \
 /             \
/               \
621429           609067
                /      \
               /         \
              /           \
             /             \
            /               \
           /                 \
          /                   \
         /                     \
        /                       \
       /                         \
      /                           \
     /                             \
    /                               \
   /                                 \
  /                                   \
 /                                     \
/                                       \
960437                             656115
    /      \
   /         \
  /           \
 /             \
/               \
633256           656115
```

```
The maximum difference between consecutive leaves is: 360323
```