Maximum of a General Tree   X37904_en

Write a program that reads a non-empty tree of integer numbers and writes its maximum value. Your program should extend the class **Tree** implemented in file `simple_tree.py` in the **public files** section of the problem statement, which can be downloaded by clicking on the 'cat' icon.

For example, given the following specification of a tree in pre-ordre, where the value stored at each node is followed by its arity

Input

```
1 4
  3 2
      6 0
     -6 0
  12 0
  2 4
     3 0
     5 2
       10 0
       -13 0
     11 0
     7 0
  8 0
```

Your program should write

Output

```
12
```

Hint

Extend the class Tree in file `simple_tree.py` with a new method `maxim` with the following header

```
def maxim(self):
    ...
```

and call that method from **main** after reading the tree.

Sample input 1

```
1 4
  3 2
      6 0
     -6 0
  12 0
  2 4
     3 0
```

```
  5 2
    10 0
    -13 0
  11 0
  7 0
8 0
```

Sample output 1

```
12
```

Problem information

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