

Lösung: X-mas tree



Die einzelnen Lösungsschritte sind jeweils in einer eigenen Funktion realisiert

```
def make_tree():
    """
    prints an Xmas tree
    :return: None
    """
    step3()

def step1():
    height = int(input('Höhe des Baums'))
    lines = 1
    while lines <= height:
        print()
        lines += 1

def step2():
    height = int(input('Höhe des Baums'))
    lines = 1
    while lines <= height:
        symbols = 0
        while symbols < (height - lines):
            print('.', end='')
            symbols += 1
        print()
        lines += 1

def step3():
    height = int(input('Höhe des Baums'))
    lines = 1
    while lines <= height:
        symbols = 0
        while symbols < (height - lines):
            print('.', end='')
            symbols += 1
        counter = 0
        while counter < (lines * 2 - 1):
            print('*', end='')
            counter += 1
        print()
        lines += 1

def step4():
    height = int(input('Höhe des Baums '))
```

```
lines = 1
while lines <= height:
    symbols = 0
    while symbols < (height - lines):
        print('.', end='')
        symbols += 1
    counter = 0
    while counter < (lines * 2 - 1):
        print('*', end='')
        counter += 1
    print()
    lines += 1

indent = 0
while indent < (height - 1):
    print('.', end='')
    indent += 1
print ('|')

if __name__ == '__main__':
    make_tree()
```

From:
<https://wiki.bzz.ch/> - **BZZ - Modulwiki**

Permanent link:
<https://wiki.bzz.ch/de/modul/m319/learningunits/lu99/loesungen/xmas?rev=1761552714>

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