

Unbound Variables

Take another look at this line of code from the `approximate_size()` function:

```
multiple = 1024 if a_kilobyte_is_1024_bytes else 1000
```



You never declare the variable `multiple`, you just assign a value to it. That's OK, because Python lets you do that. What Python will *not* let you do is reference a variable that has never been assigned a value. Trying to do so will raise a `NameError` exception.

```
x
#Traceback (most recent call last):
#  File "/usercode/__ed_file.py", line 1, in <module>
# x
#NameError: name 'x' is not defined
```



```
x = 1
print (x)
#1
```



You will thank Python for this one day.