Problem Set 14 - Classes and Methods

p1: mytime2.py
Refer to the class Time provided in mytime2.py (or use your own version) and main.py also provided.

Change the attributes of Time to be a single integer representing seconds since midnight. Then modify the methods and the function time_from_seconds() to work with the new implementation. You should not have to make any changes to the test code in main. When you are done, the output should be the same as before.

p2: kangaroo.py
This exercise is a cautionary tale about one of the most common, and difficult to find, errors in Python. Write a definition for a class named Kangaroo with the following methods:

1. An __init__() method that initializes an attribute named pouch_contents to an empty list.
2. A method named put_in_pouch() that takes an object of any type and adds it to pouch_contents.
3. A __str__() method that returns a string representation of the Kangaroo object and the contents of the pouch.
4. Use the following testing code to test your class and see the issue created.

```python
def main():
    kanga = Kangaroo()
    kanga.put_in_pouch('kanga')
    roo = Kangaroo()
    roo.put_in_pouch('roo')

    kanga.put_in_pouch(roo)
    print(kanga)

main()
```

5. Now try to fix the issue.