

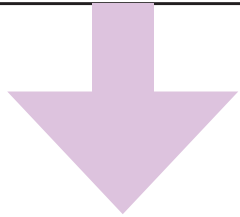
starter code

code warrior

```
import random
import time

days = ["monday", "tuesday", "wednesday", "thursday", "friday"]
randomDays = [ ]

for i in range(10):
    rand = random.randint(0,5)
    randomDays.append(days[rand])
    print(f"{i} : {rand} : {randomDays[i]}")
    time.sleep(3)
```



Run the code.

There is an error! Can you correct it? This is called Corrective Maintenance.

In a loop, a random day is chosen and appended to the array, **randomDays**.

Adaptive maintenance

- Remove the time.sleep code.
- Remove the print statement.
- Add a new print statement outside the loop:
print(randomDays)
- Change the loop to iterate 500 times.

Now, continue your program by translating this PSEUDOCODE to PROGRAM CODE

count ← 0

OUTPUT "Enter a day, eg Monday: "

INPUT day

```
//write a validation check to only allow the 5 valid
//day names to be entered.
```

FOR i ← 1 TO 500

```
//write code that will count the number of times the
//user input is in the randomDays array.
```

END FOR

IF day = "friday" AND count > 10

THEN

OUTPUT count, ": Happy Friday!!"

END IF

OUTPUT "End of Program"



Corrective maintenance

Test your code and fix any bugs that appear.

Adaptive maintenance

If the user enters eg "Friday" or "FRIday", the program should still work. Adapt your code.