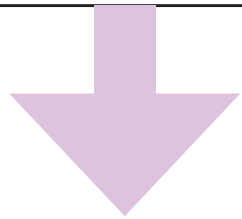


starter code

```
import random
import time

seasons = ["summer", "winter", "autumn", "spring"]
randomSeasons = [ ]

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



Run the code.

Can you see how it works?

In a loop, a random season is chosen and appended to the array, **randomSeasons**.

Adaptive maintenance

Remove the time.sleep code.

Remove the print statement.

Add a new print statement outside the loop:
print(randomSeasons)

Change the loop to iterate 500 times.

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

code warrior

count ← 0

OUTPUT "Enter a season"

INPUT season

```
//write a validation check to only allow
//"summer" or "winter" or "autumn" or "spring": to
//be entered
```

FOR i ← 1 TO 500

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

END FOR

IF season = "winter" AND count > 50

THEN

OUTPUT count, ": it is going to be a long cold winter!!"

END IF

OUTPUT "End of Program"



Corrective maintenance

Test your code and fix any bugs that appear.

Adaptive maintenance

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