

Static members → Too many cats

📊 Medium ⌚ 7 minutes ?

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Let's count the cats! Implement a class named `Cat` and a static method `getNumberOfCats`.

These are some features of the class:

- The class `Cat` has two instance fields: string `name` and int `age`, and one static int field `counter`. The static `counter` field allows you to know how many cats have been already created.
- The class should have a constructor for initializing the instance fields. During the initialization of a new cat, the value of the static field `counter` should be incremented. If the `counter > 5`, the message "You have too many cats" must be printed out in the `System.out`.

Your static method `getNumberOfCats` should return the current number of created cats and print no messages.

Take a look at the example:

Let's assume seven instances of the class `Cat` have already been created. Then the correctly implemented method `Cat.getNumberOfCats()` should return 7. The message "You have too many cats" has to appear twice.

Use the provided template and do not make the class private.

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Java

```
1 class Cat {
2
3     // write static and instance variables
4     String name;
5     int age;
6     public static int counter = 0;
7
8     public Cat(String name, int age) {
9         // implement the constructor
10        // do not forget to check the number of cats
11        if (counter >= 5) {
12            System.out.println("You have too many cats");
13        }
14        this.name = name;
15        this.age = age;
16        ++counter;
17    }
18
19
20    public static int getNumberOfCats() {
21        // implement the static method
22        return counter;
23    }
24 }
25
```

✓ Correct.

That's an awesome solution! What do you think about showing it off? [Post it to Solutions](#) so other learners can enjoy it too.

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