The for-loop → Maximum element divisible by four

📊 Medium   🕐 8 minutes   ⊙

Given a sequence of natural numbers, not exceeding 30000. Find the maximum element divisible by 4. There is always an element divisible by 4 in the sequence and the number of elements does not exceed 1000.

As input, the program receives the number of elements in the sequence **n** (first line) and then the elements themselves (next n lines). The program should print a single number: the maximum element of the sequence divisible by 4.

Try to solve this problem by using a for-loop.

📄 Report a typo

Sample Input 1:

```
12
16
87
58
25
73
86
36
79
40
12
89
32
```

Sample Output 1:

```
40
```

↳ Write a program

Code Editor   **IDE**

```java
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        // put your code here
        Scanner scanner = new Scanner(System.in);

        int n = scanner.nextInt();
        int maxValue = 0;
        for (int i = 0; i < n; i++) {
            int number = scanner.nextInt();
            if (number % 4 == 0 && number > maxValue) {
                maxValue = number;
            }
        }
        System.out.println(maxValue);
        scanner.close();
    }
}
```

✓ 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.

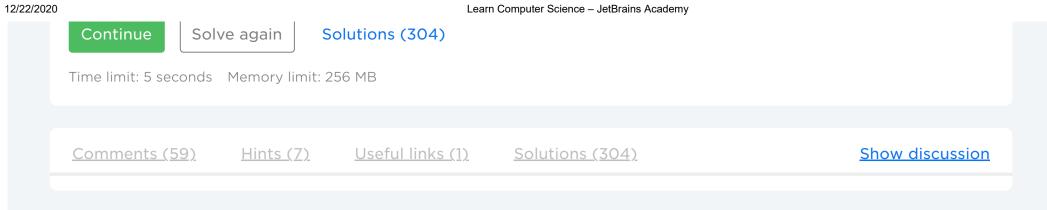**529** users liked this problem. **25** didn't like it. **What about you?**

😍 🙂 😐 🙁 😡

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