

```
public class Question3 {  
  
    public static void main(String[] args) {  
        //long number = 6008514751431;  
        long newnum = 6008514751431;  
        long largestFact = 0;  
  
        int counter = 2;  
        while (counter * counter <= newnum) {  
            if (newnum % counter == 0) {  
                newnum = newnum / counter;  
                largestFact = counter;  
            } else {  
                counter++;  
            }  
        }  
        if (newnum > largestFact) {  
            largestFact = newnum;  
        }  
        System.out.println(largestFact);  
    }  
}
```