

### Question 6

Not yet answered

Marked out of 1.00



# Given the code fragment:

```
1
     System.out.println(2 + 4 * 9 - 3);
2 System.out.println((2 + 4) * 9 - 3);
3 System.out.println(2 + (4 * 9) - 3);
4 System.out.println(2 + 4 * (9 - 3));
  System.out.println((2 + 4 * 9) - 3);
```

Which line of code prints the highest number?

### Select one:

- Line 1
- Line 2
- Line 3
- Line 4
- Line 5

### Question 7

Not yet answered

Marked out of 1.00

Flag question

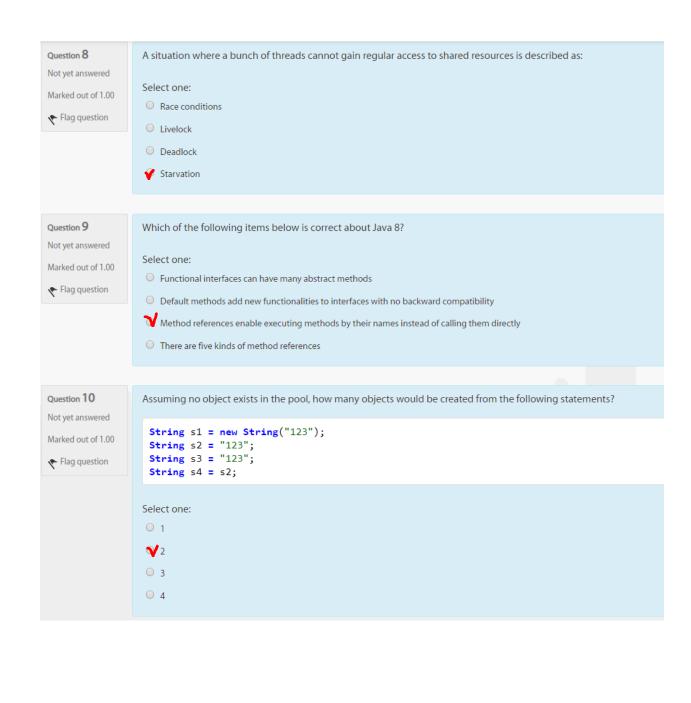
A subclass of which of the following classes should be used when trying to read data from a text file?

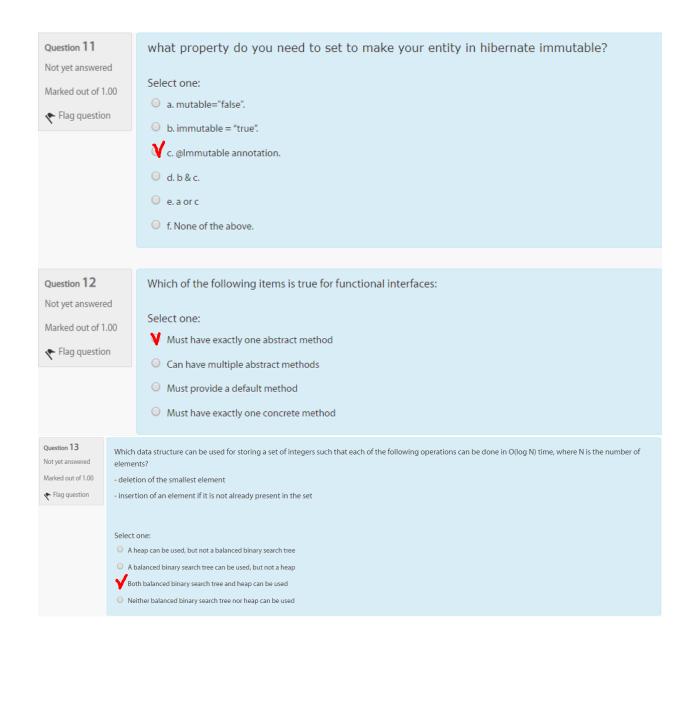
#### Select one:

- File
- InputStream
- OutputStream



**₩** Reader





### Question 14

Not yet answered

Marked out of 1.00

Flag question

This class allows users to write a series of messages.

Each message is identified with a timestamp and the name of the thread that wrote the message:

```
public class Logger {
    private StringBuilder contents = new StringBuilder();
     public void log(String message) {
           contents.append(System.currentTimeMillis());
contents.append(": ");
           contents.append(Thread.currentThread().getName());
contents.append(message);
contents.append("\n");
     public String getContents() {
           return contents.toString();
```

How can we ensure that instances of this class can be safely used by multiple threads?

#### Select one:

- This class is already thread-safe
- Replacing StringBuilder with StringBuffer will make this class thread-safe
- Synchronize the log() method only
- Synchronize the getContents() method only
- Synchronize both log() and getContents()
- This class cannot be made thread-safe

### Question 15 Not yet answered

Marked out of 1.00

Flag question

We've deployed new release on the production. And it became very slow. What are your suggestion how to analyze and find bottleneck?

Select one or more:

- Check the logs
- Run with profiler
- Turn on monitoring tools
- Enable debug logging
- Add more instances to the cluster
- Call SaasOps

Check the difference in source code from previous version

Pray your favorite God.

### Question 16 Not yet answered Marked out of 1.00 Flag question

Which of the following methods should a custom class loader override in order to ensure that the protected defineClass() method is called just one time for every class loader hierarchy and class name pair?

Select one or more:

- protected final defineClass(String, boolean)
- public loadClass(String)
- protected final findLoadedClass(String)
- protected loadClass(String, boolean)



## Question 17 What will happen if you try to compile and run this program? Not yet answered public class Inc { public static void main(String[] args) { int[] i = (1); Inc in = new Inc(); in.increment(i); } Marked out of 1.00 Flag question System.out.println(i[i.length - 1]); void increment(int[] i) { i[i.length - 1]++; Select one: Compiler error Compiles and runs printing out 2 Compiles and runs printing out 1 An ArrayIndexOutOfBounds Exception at runtime Question 18 From the perspective of a Java generational garbage collector, all new objects are considered to be part of: Not yet answered Select one: Marked out of 1.00 old generation Flag question new generation PermGen Metaspace Question 19 throughput. Which garbage collector type, in principle, is indicated for his case: Not yet answered Marked out of 1.00 Select one: Flag question Serial collector. Parallel collector. Mostly concurrent collector. None of the above. Question 20 How to make a custom type support for "foreach" syntax? Not yet answered Marked out of 1.00 It is not possible using foreach within custom classes Flag question O Extending from an existing java container type, e.g java.util.Map Implementing from java.lang.lterable

Implementing from java.util.lterator

### Ouestion 21

Not yet answered

Marked out of 1.00

Flag question

Which of the following libraries allow you to mock the private methods?

### Select one:

- mockito

powermock

Mocking private methods is not allowed.

### Question 22

Not yet answered

Marked out of 1.00

Flag question

## Consider you have the following test,

```
@Test
public void whenCreateMock_thenCreated() {
   List<String> mockedList = Mockito.mock(ArrayList.class);
    mockedList.add("one");
   Mockito.verify(mockedList).add("one");
   assertEquals(0, mockedList.size());
}
```

What will be the most likely out of running this test?

### Select one:

- Test will fail, as mockedList.size() is 1 after adding "one"
- Test will Pass, as mockedList is not a real object.
- Test will throw exception as manipulation on mocked objects is not allowed.
- Test will generate runtime error.

## Question 23 Which of the following is true about Restful web services? Not yet answered Select one: Marked out of 1.00 a. RESTful web services provide access to resources Flag question b. Each resource is identifiable by an Id / URI c. RESTful web services can represent resources in various formats (e.g JSON, XML) d. All of the above Question 24 Which of the following is/are true about REST? (Select all that apply) Not yet answered Select one or more: Marked out of 1.00 a. REST is a protocol Flag question b. REST allows the use of different data formats (e.g. JSON, XML) c. REST supports WS-Security U d. REST has better performance and scalability over SOAP Question 25 Which of the following is/are true about client-side caching in regards to RESTful web services? Not yet answered Select one or more: Marked out of 1.00 🔰 a. Client-side caching refers to storing responses from a server in the client itself so that a client does not need to make a server request for the same resource(s) repeatedly Flag question f b. The server response should include information about whether caching should be performed. \_\_\_\_c. Only, the client should determine if a specific resource should be cacheable or not (Most commonly done by HTTP method). d. The server response should include data on how long the client should cache each resource.

e. Only clients should determine how long of a cache is appropriate for a given resource based on client needs.

## Question 26 Which of the following HTTP methods are considered 'safe' AND 'idempotent'? Not yet answered Select one or more: Marked out of 1.00 🧭 a. GET Flag question b, HEAD c. POST d. PUT Question 27 The students table was created using the following code: Not yet answered CREATE TABLE students ( Marked out of 1.00 StudentID INT IDENTITY PRIMARY KEY Flag question , FirstName VARCHAR(20)

What would happen if you attempted to run the following code after the table was created?

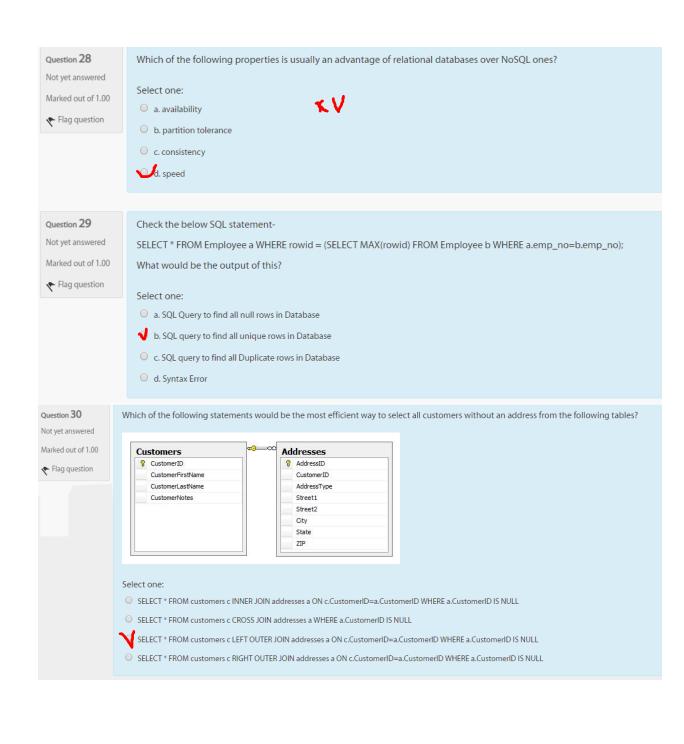
```
INSERT INTO students (FirstName, LastName) VALUES ('Jane', 'Doe');
```

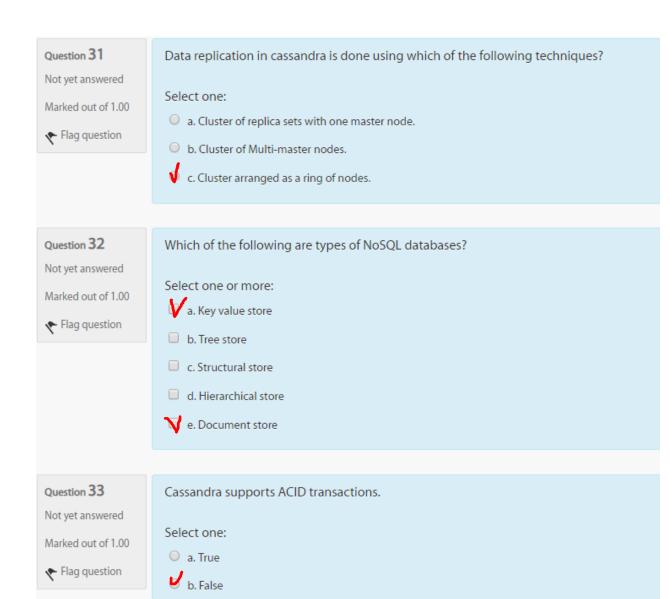
### Select one:

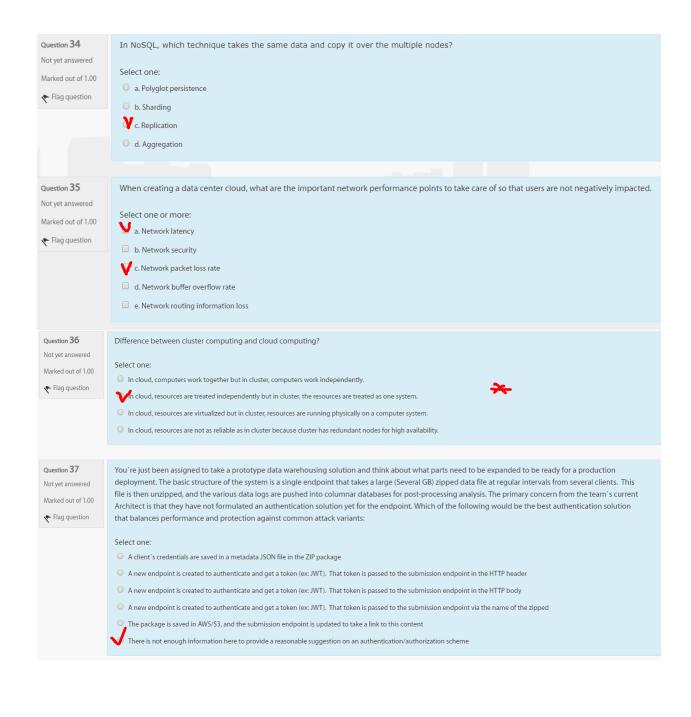
);

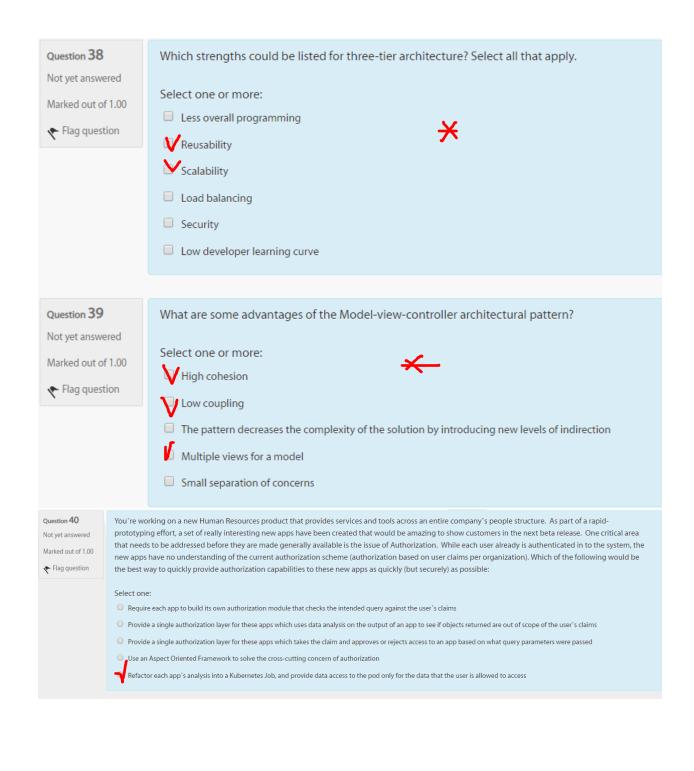
, LastName VARCHAR(20)

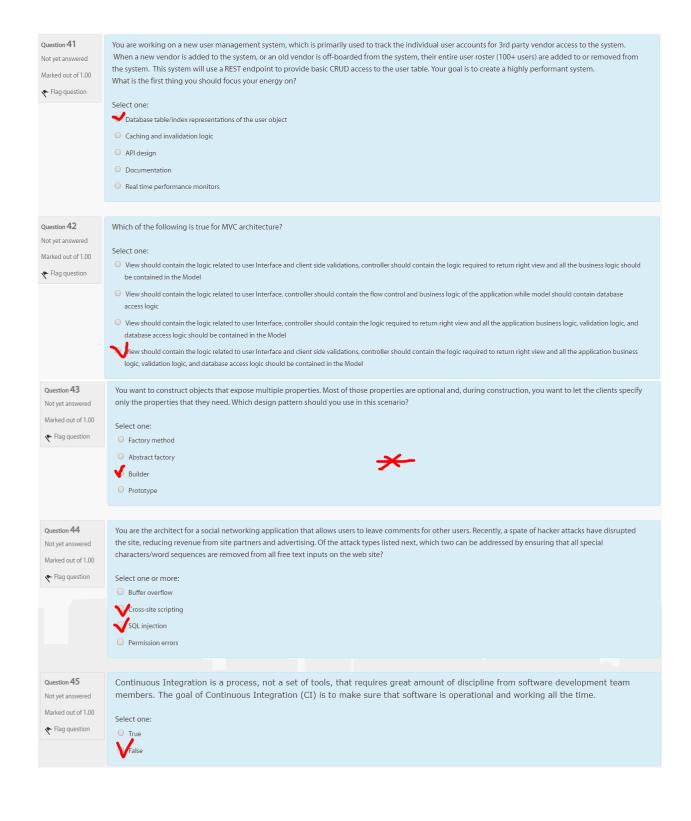
- a. A row would be inserted into the students table with StudentID = Null
- b. A row would be inserted into the students table with StudentID = [next number in series]
- c. A row would be inserted into the students table with StudentID = "
- d. An error would be returned as a value for the primary key was not specified.



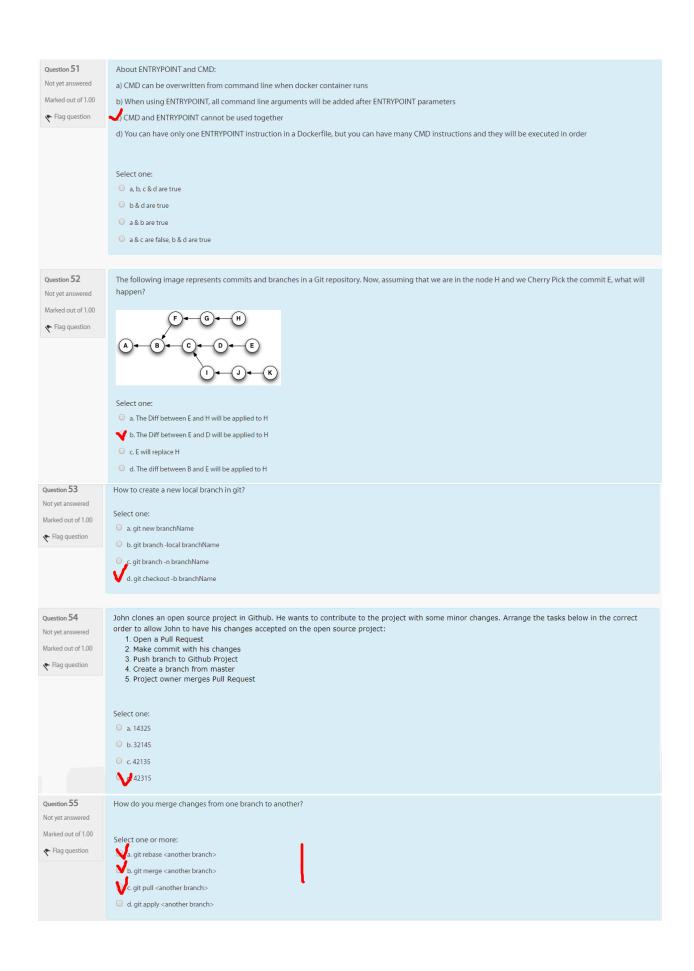


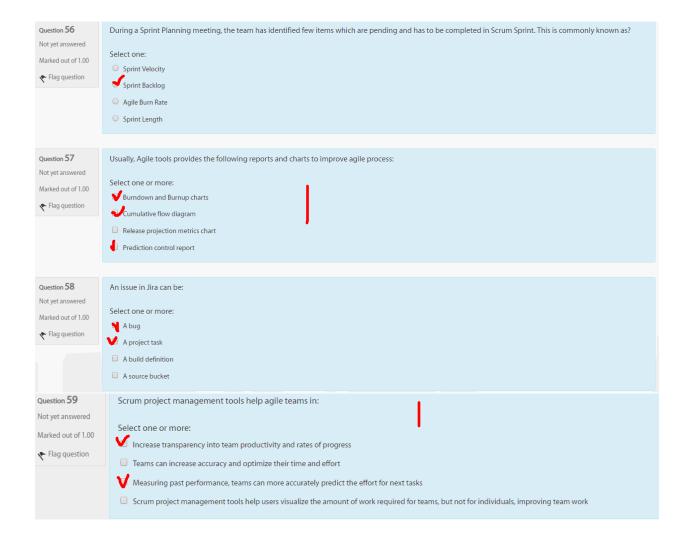






Question 46  Not yet answered  Marked out of 1.00  Flag question	In a Cluster Operations Job, which <b>THREE</b> of the following steps can be applied to a Client Master only?  Select one or more:  a. Install Jenkins b. Upgrade Jenkins c. Upgrade all plugins d. Install plugin e. Uninstall Jenkins
Question 47  Not yet answered  Marked out of 1.00  Flag question	After setting up an ELB for a website, what is the best way to route traffic to it?  Select one:  a. Generate a CNAME record for the website and point it at the DNS name of the ELB.  b. There is no direct way to do this. You need to use Route53.  c. Resolve the ELB name to an IP address and point the website to that IP address.
Question 48  Not yet answered  Marked out of 1.00  Flag question	Which of the following runtime environment is not available when creating Lambda Function in AWS?  Select one:  Java  L++  NodeJS  Python  C#
Question 49 Not yet answered Marked out of 1.00 Flag question	In the context of an AWS based deployment, you have an app that is deployed in an unstable region and machines keep dying every few hours. Every time a machine comes back up, you need to be able to assign it a new FQDN. How would you implement this?  Select one:  Setup your own DNS server  Setup your own Dynamic DNS server  Use Route 53  Use the VPC DHCP options to assign the FQDN
Question 50  Not yet answered  Marked out of 1.00  Flag question	It's possible to execute commands inside a running docker container without access the container's console?  Select one:  a. No, there's no way to do that  b. Yes, using the command: "docker run -it <command/> "  c. Yes, using the command: "docker exec <container_name> <command/>"  d. Yes, using the command: "docker attach <container_name> <command/>"</container_name></container_name>





Two strings, a and b, are said to be twins only if they can be made equivalent by performing some number of operations on one or both strings. There are two possible operations:

- SwapEven: Swap a character at an even-numbered index with a character at another even-numbered index.
- SwapOdd: Swap a character at an odd-numbered index with a character at another odd-numbered index.

For example, a = "abcd" and b = "cdab" are twins because we can make them equivalent by performing operations. Alternatively, a = "abcd" and b = "bcda" are not twins (operations do not move characters between odd and even indices), and neither are a = "abc" and b = "ab" (no amount of operations will insert a c into string b).

Complete the code in the editor below, the twins() method with the following params.

```
    An array of n strings named a.
    An array of n strings named b.
```

The function must return an array of strings where each index i ( $0 \le i$  < n) contains the string Yes if  $a_i$  and  $b_i$  are twins or the string No if they are

### **Input Format:**

The internal test cases will pass the following input to the program using the STDIN and expect output on the STDOUT:

The first line contains an integer, n, denoting the number of elements in a.

Each line i of the n subsequent lines (where  $0 \le i < n$ ) contains a string describing  $a_i$ .

The next line contains an integer, n, denoting the number of elements in b.

Each line i of the n subsequent lines (where  $0 \le i < n$ ) contains a string describing  $b_i$ .

#### **Constraints:**

```
• 1 \le n \le 10^3
```

- $1 \le length(a_i)$ ,  $length(b_i) \le 100$
- ai and bi are not guaranteed to have the same length.
- Strings  $a_i$  and  $b_i$  contain lowercase letters only (i.e., a through z ).

# Sample Input:

```
2
cdab
dcba
2
abcd
abcd
```

# Sample Output:

```
Yes
No
```

### **Explanation:**

```
Given a = ["cdab", "dcba"] and b = ["abcd", "abcd"], we process each element like so:

1. a<sub>0</sub> = "cdab" and b<sub>0</sub> = "abcd": We store Yes in index 0 of the return array because a<sub>0</sub> = "cdab" → "adcb" → "abcd" = b<sub>0</sub>.

2. a<sub>1</sub> = "dcba" and b<sub>1</sub> = "abcd": We store No in index 1 of the return array because no amount of operations will move a character from an odd index to an even index, so the two strings will never be equal.
```

We then return the array ["Yes", "No"] as our answer.

### For example:

Input	Result
2 cdab dcba 2 abcd abcd	Yes No

```
Answer: (penalty regime: 0 %)
 import java.io.*;
import java.util.*;
 import java.text.*;
 import java.math.*;
 import java.util.regex.*;
 public class Tester {
       * Complete the function below.
       * DO NOT MODIFY anything outside this method.
      static boolean[] twins(String[] a, String[] b) {
   boolean[] result = new boolean[a.length];
          return result;
      /**
       * DO NOT MODIFY THIS METHOD!
      public static void main(String[] args) throws IOException {
          Scanner in = new Scanner(System.in);
          int n = Integer.parseInt(in.nextLine().trim());
String[] a = new String[n];
for(int i = 0; i < n; i++) {</pre>
              a[i] = in.nextLine();
           int m = Integer.parseInt(in.nextLine().trim());
           String[] b = new String[m];
for(int i = 0; i < m; i++) {
               b[i] = in.nextLine();
           // call twins function
           boolean[] results = twins(a, b);
           for(int i = 0; i < results.length; i++) {
    System.out.println(results[i]? "Yes" : "No");</pre>
```