**24. Website**

# Program Name: Website.java Input File: website.dat

Your boss has assigned you the task of creating a website in JavaScript because you told him you know how to program in Java, but since he doesn’t know anything about computers, he assumed they were the same thing. With a little help from your handy JS reference book and StackOverflow, you’ve managed to figure out how to set up a backend server. However, there’s one thing hindering you from completing the website. In order to serve URLs correctly, your server script must send the URL of the page to return, but with the special characters encoded, since browsers can’t handle special characters. URL encoding is very simple- any non-alphanumeric characters are replaced with a percent sign %, followed by the hexadecimal representation of that character, with one exception. The first part of the URL, which includes the protocol, the domain name, and the port, must not be encoded. For example,

https://www.thisismywebsite.com:8080/login.php?username=admin&password=password&message=I'm trying to log in.

becomes

https://www.thisismywebsite.com:8080/login%2Ephp%3Fusername%3Dadmin%26password%3Dpassword%26message%3DI%27m%20trying%20to%20log%in%2E

Note: There might not always be a port number.

**Input**

The first line of input will contain a single integer n that indicates how many test cases to follow. Each test case will contain a URL on one line.

**Output**

For each test case, print the encoded version of the URL.

**Example Input File**

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https://www.thisismywebsite.com:8080/login.php?username=admin&password=password&message=I'm trying to log in.

https://www.someotherpage.com/index.html

ftp://www.sketchysite.net:46/illegal\_files/pirating/movies/Avengers\_EndgamePrerelease\_(4K)\_Not\_A\_Virus.mkv

**Example Output to Screen**

https://www.thisismywebsite.com:8080/login%2Ephp%3Fusername%3Dadmin%26password%3Dpassword%26message%3DI%27m%20trying%20to%20log%in%2E

https://www.someotherpage.com/index%2Ehtml

ftp://www.sketchysite.net:46/illegal%5Ffiles%2Fpirating%2Fmovies%2FAvengers%5FEndgamePrerelease%5F%284K%29%5FNot%5FA%5FVirus%2Emkv