Challenge 6 - Man in the middle

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You now work for the NSA. We have an important service being monitored, and we want to decipher and modify the communications going to and coming from this server. Fortunately, our agents obtained access to both the client and server code so you may study the communication protocol.

As you can see, the client uses a key phrase to obtain a secret message from the server. We have received a key phrase from an informer and we want to know the associated secret message.

We cannot connect directly to the server but we found a backdoor on the client's router and we were able to install a man-in-the-middle service to spy

and modify communications. The address to the service is:

$$54.83.207.90:6969$$

Your mission is to replace the client's keyphrase with ours and decipher the associated secret message.

Once you connect to the man-in-the-middle service, you will receive strings like:

```
CLIENT->SERVER:hello?
```

This means that the client is sending the message "hello?" to the server. You can then modify the message (if you like) and send it back. The man-in-the-middle service will submit your message to the server.

Submit & test your code

To test and submit code we provide a set of tools to help you. Download contest tools if you haven't already done that. You will then be able to test your solution to this challenge with the challenge tokens.

```
Challenge tokens: CHALLENGE_6, CHALLENGE_SUBMIT_6
```

To test your program

```
./test_challenge CHALLENGE_6 path/program
```

A nice output will tell you if your program got the right solution or not. You can try as many times as you need.

To test your program against the input provided in the submit phase

```
./test_challenge CHALLENGE_SUBMIT_6 path/program
```

During the submit phase, in some problems, we might give your program hard-

er inputs. As with the test token, a nice output will tell you if your program got the right solution or not. You can try as many times as you need.

In the actual contest you first need to solve the test phase before submitting the code, you must provide the source code used to solve the challenge and you can only submit once (once your solution is submitted you won't be able to amend it to fix issues or make it faster).

If you have any doubts, please check the info section.

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