

## EX3 - SMTP Client

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In This exercise you will implement a SMTP Client.

Here is a simple example of the conversion between the client to the server.

```
S: 220 smtp.example.com ESMTP Postfix
C: HELO relay.example.org
S: 250 Hello relay.example.org, I am glad to meet you
C: MAIL FROM:
S: 250 Ok
C: RCPT TO:
S: 250 Ok
C: RCPT TO:
S: 250 Ok
C: DATA
S: 354 End data with
C: From: "Bob Example"
C: To: "Alice Example"
C: Cc: theboss@example.com
C: Date: Tue, 15 January 2008 16:02:43 -0500
C: Subject: Test message
C:
C: Hello Alice.
C: This is a test message with 5 header fields and 4 lines in the message body.
C: Your friend,
C: Bob
C: .
S: 250 Ok: queued as 12345
C: QUIT
S: 221 Bye
{The server closes the connection}
```

In your program, you need to open a connection to some SMTP server. If the connection established you'll get a greeting message from the server and you can start the conversation.

The program should get 3 parameters at this order:

path to an input file

smtp server

port - optional, if not exist use port 25 when connecting to the server.

The input file contains the following information:

msg body

After connecting the server, you'll have to send the informatrion as in the example above (you'll have one recipient).

When sending the message, append "\r\n.\r\n" to it.

Note, that in the first message, the server send a terminating string which will be the suffix of its messages starting from the third message, so this will be the condition to stop reading from the socket. For the first 2 messages, stop reading when encountering new line.

Verify that the server replies with 2XX messages, meaning, everything is ok.  
Try to create mails that look real, but there could still be a situation where the server identifies your mail as spam, this is ok, there is nothing we can do about it.

use SMTP server: aspmx.l.google.com, to send from one gmail account to another gmail account.  
You can find another SMTP server that does not require authentication.

you submit one file, including main, makefile and readme.

Godd Luck!