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HOMEWORK 11

Recipe 1:

```
:0 :  
* ^From.*<*@*>,  
recipe_1
```

Explanation: We search the header to look for the From and then an email, which we know will be in the format of <Something@something>, and if there is a comma at the end, then we know there are multiple senders which indicates we need to move it to recipe_1

Recipe 2:

```
:0 :  
* ^Subject.*([dD]iploma|[dD]egree|[mM]edication|[vV][ij]a[qg][rR]+a|[bB]uy|[hH]ostway)  
recipe_2
```

Explanation: We search the Subject line for certain words, like diploma, degree, medication, viagra, buy, and hostway. We also account for different capitalizations and misspellings. If detected, we move it to recipe_2.

Recipe 3:

```
:0 B:  
* (casino|gold)  
recipe_3
```

Explanation: We search the body for certain words like casino and gold, indicating spam and we move it to recipe_3.

Recipe 4:

```
:0 HB:  
* ^Content-Type: text/plain  
* ^Content-Type: text/html  
recipe_4
```

Explanation: We search the header and the body for multiple content-types, specifically text/plain and text/html, as multiple content-types could be spam. This recipe will be true and move the mail to recipe 4 if and only if both conditions are met.

FOR ALL OF THEM: The second colon in the recipe creates a temporary lockfile, and makes it so that if multiple emails are sent at once, then they are processed one at a time, and aren't overlapping/overwriting each other.