Homework Project 4

Given 11/20/2013, Due 12/15/2013

Write a function that performs simultaneus search for multiple patterns on a long string, using the Rabin-Karp algorithm. The function

```
int multi_string_search(char *s, char **t, int k, int l)
```

has the following arguments
- the data string `s` in which we search,
- the array of pattern strings `t`,
- the number of pattern strings `k`,
- the length of the pattern strings `l`

The function returns the position of the start of the first pattern that occurs in `s`, or -1 if none of the patterns occurs. We count the position from 0, so "work" occurs in "homework" at position 4.