CS1337 Spring 2019

Homework: Password Validation

Write a program that asks the user for a string and validates it as a password according to the rules given below. If the user enters an asterisk (\*), the program should exit. Otherwise, it should continue asking for passwords and validating them.

Rules:

1. Passwords must be a minimum of 12 characters long and no more than 50 characters long.
2. They must contain at least one upper-case letter.
3. They must contain at least one lower-case letter.
4. They must contain at least one digit (0-9)
5. They must contain at least one special character from the set !@#$%^&()[],.:;

Some notes on programming:

1. Don’t do everything in the *main* function. Write little functions as needed.
2. Plan your program before you start writing. There are easy ways and difficult ways to check for the special characters, for example.
3. Use built-in functions like *isDigit* and the like.

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| Grading Criteria | |
| Program rejects passwords that do not meet criteria and accepts those that do | 30 |
| Program use functions to test various things | 10 |
| Program uses an array other than the array of *char* that contains the password | 5 |
| Program comments | 5 |
| Total | 50 |