Introduction to Computers and Programming Bonus pC

2023/11/19

1. List File

For some operating systems, we do not have a GUI to interact with machines. Hense, we have to type command as instruction to get result which we want.

In Unix, we always use 1s to get which files in current folder.

```
$ ls
.
..
final.cpp
midterm.cpp
```

I want you to implement a program to do the same thing.

Hint

You can use FindFirstFile and FindNextFile to help you iterate directory.

chatgpt response will have something wrong, so remember to fix it and execute it correctly.

2. File Information

In this part, I want you to print file information.

Input

First line contain a string S indicated file path.

• $1 \le len(S) \le 128$

Output

First line print path, second line print file type, and third line print file size.

Notice that if file size is greater than 1 GB, you just convert unit to MB at most.

Hint

You can refer to posix function stat.

Sample Input 1

```
C:\Users\user\Downloads\text1.txt
```

Sample Output 1

```
C:\Users\user\Downloads\text1.txt
```

Type: normal file

Size: 10 bytes

Sample Input 2

```
C:\Users\user\Downloads\text2.txt
```

Sample Onput 2

```
C:\Users\user\Downloads\text2.txt
```

Type: normal file

Size: 10 GB

Sample Input 3

```
C:\Users\user\Downloads
```

Sample Onput 3

C:\Users\user\Downloads

Type: directory

Size: 249 MB