Separate the Files

🏆 Points: 50   ⊘ 14 test cases (0 samples)

Coding Approx.   🏷   File Manipulation   Regex   Scripting   General Programming   EASY   Core Skills

Problem Solving

Consider a text file that contains a list of C, C++, and C# source code file names. The extensions for the file types are as follows:

1. C → .c
2. C++ → .cpp
3. C# → .cs

Given a string, *filename*, that denotes the name of a real text, create the following three output files where *filename* denotes the name of the file received as input:

1. *c_filename*, for storing C file names.
2. *cpp_filename*, for storing C++ file names.
3. *cs_filename*, for storing C# file names.

Next, process the list of file names in *filename* in order and, for each source code file name, append the source code file name to the appropriate output file.
For example, the input filename is *file_00.txt* and it contains the following data:

```
first.c
first.cpp
```

```
first.cs
second.c
```

First, create the three files named *c_file_00.txt*, *cpp_file_00.txt* and *cs_file_00.txt*. Read in each source file name and write them out to their appropriate files. The results are:

```
c_file_00.txt
        first.c
        second.c

cpp_file_00.txt
        first.cpp

cs_file_00.txt
        first.cs
```

The file names must maintain the order in which they were listed in *file_00.txt*.

Function Description

Complete the code in the editor below. It must create three files and save the appropriate source file names to each one while maintaining order.

The program has the following parameter(s):

filename: the name of a text file

Constraints

- The file has a maximum of 10^5 lines.

Input from stdin will be processed as follows and passed to the function.

The only line contains the name of a text file to read, *filename*.

Sample Input 0

```
names_list_00.txt
```

Sample Output 0

Create the following three output files:

- *c_names_list_00.txt*:

```
code1.c
code3.c
code4.c
```

- *cpp_names_list_00.txt*:

```
code1.cpp
code5.cpp
```

- *cs_names_list_00.txt*:

```
code1.cs
code2.cs
```

Explanation 0

The content of the text file *names_list_00.txt* is:

```
code1.c
code1.cpp
code1.cs
code2.cs
code3.c
code4.c
code5.cpp
```

Observe that each source code file name in the input file was put into the output file corresponding to its language, and the order of the source code file names is maintained.