

Read Me

In the assignment, the program need to be a word divider. For a example, while receiving "1234 0x1234 01234", it needs to divide the string to different type parts. The types are decimal(start with 1-9 and followed by 0-9), hexadecimal(start with 0x or 0X and followed by 0-9 or A-F or a-f), octal(start with 0 and followed by 0-7) and float (Case1: start with 0 then must followed by '.' then n*0-9 then followed by 'E' or 'e' then case1.1 followed by '+' '-' must followed by 0-9 or case 1.2 followed by 0-9. Case 2: start with 1-9 must followed n*0-9 then case 2.1 followed by '.' must followed by n*0-9 then by 'E' or 'e' or case 2.2 followed by 'E' or 'e' then followed like case 1.1 and 1.2). At the same time, it should check the white space as mentioned in documents.

All wrong input should be printed as ASCII such as "." "[0x2e]".

In the meanwhile, the program should keep high-efficiency. The program needs to free token after using it (get results and printing).

I used many help methods(such as isfloat isspace) to help me reach different cases. Then print these results and free token.