
Problem #3: Function Finder Fun

Program Name: function.java

Input File: function.dat

Sometimes in programming it's useful to know what functions are called by a snippet of code. You want to write a program that will do just that.

Input

Input will be a snippet of code, 1-100 lines in length.

Output

Output will be the function names, in the order that they occur in the code, each on their own line. For the purpose of this problem, a function name will be a sequence of alphabetic [a-zA-Z] characters immediately to left of a '(' as long as the name is not one of the following reserved words:

if,while,for,switch,return

Function names should only be output the first time they are encountered in the code.

Example Input File

```
int x,y;
int z=(3 + 2) * 5;

System.out.println("Test");

for(x = 0; x < 20; x++)
    for(y = 0; y < 30; y++)
        if(y == 1)
            System.out.println(x + "+" + y + "=" + (x + y));

while(z <= 25)
{
    foo(z);
    parse(z + 3);
    z++;
}

return(x * y * z);
```

Example Output To Screen

```
println
foo
parse
```