

Homework 6 Solution

Problem 1:

2141

3

Problem 2

1. How many BEEPs will be printed if you run the above program?

1+2+4=7

2. How about BOOMs?

4

Problem 3.

1. Fill in the blanks above.

(1) `getenv("PATH");`

(2) `delim = strchr(p, ':')`

(3) `strcat(strcat(path, "/"), bin);`

(4) `execve(path, argv, NULL);`

(5) `p = delim + 1;`

2. What does the program above do? Try it on your Linux!

Search for 'ls' in 'PATH' and execute it without arguments, which lists all visible files in the current directory.

3. Is it necessary to check the return value of 'execve'? Why?

No because if 'execve' succeeds, it will never return.

4. What does it mean if 'execve' returns an error?

It means the program 'ls' is not in 'path'