

```
main(args)
```

```
// main program flow, pseudo code
```

```
while(input != NULL)
```

```
    tokens = parseInput(input)
```

```
    respondToTokens(tokens) |
```



```
respondToTokens(tokens)
```

```
// routes commands to the appropriate job handlers
```

```
if (isBuiltInJob) runBuiltInJob(tokens)
```

```
else runJob(tokens) |
```



```
runJob(tokens)
```

```
    pid = fork()
```

```
    if (pid = 0) exec(tokens)
```

```
    else
```

```
        if (isBGJob) wait(pid)
```

```
    free(loop_memory)
```

```
free(program_memory)
```

```
exit(0)
```