

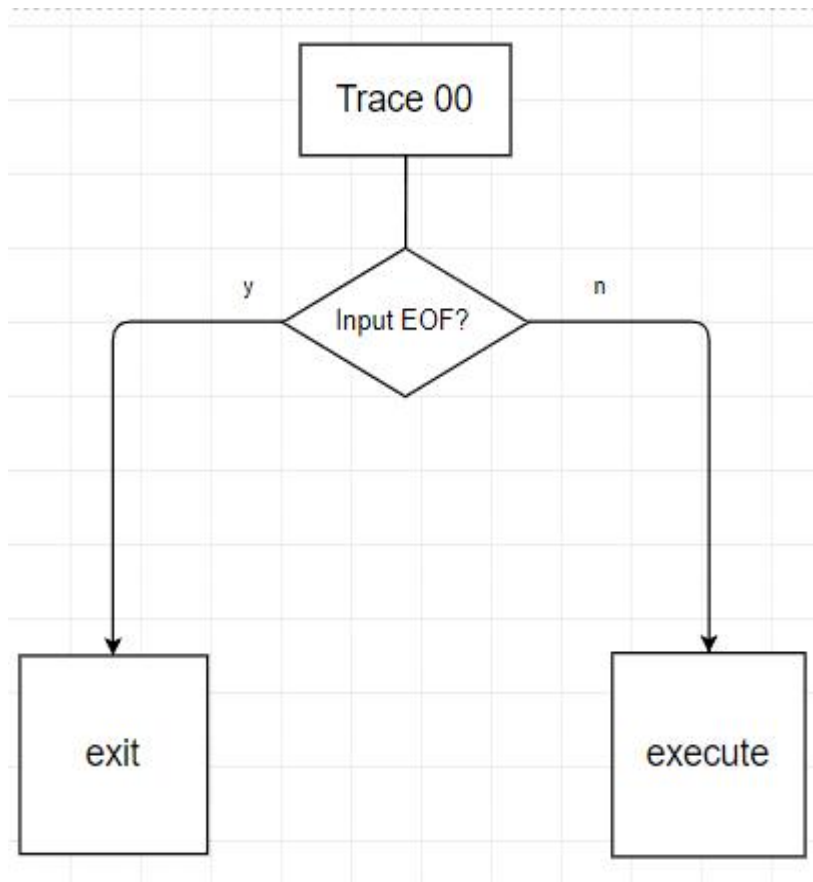
**2018 시스템 프로그래밍**  
**- Lab 06 -**

제출일자	2018.11.05
분 반	00
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학 번	2016XXXXX

## Trace 00

```
a201502023@2018-sp: ~/shlab-handout
a201502023@2018-sp:~/shlab-handout$ ./sdriver -V -t 00 -s ./tsh
Running trace00.txt...
Success: The test and reference outputs for trace00.txt matched!
Test output:
#
# trace00.txt - Properly terminate on EOF.
#
Reference output:
#
# trace00.txt - Properly terminate on EOF.
#
a201502023@2018-sp:~/shlab-handout$
```

## trace 00 플로우 차트



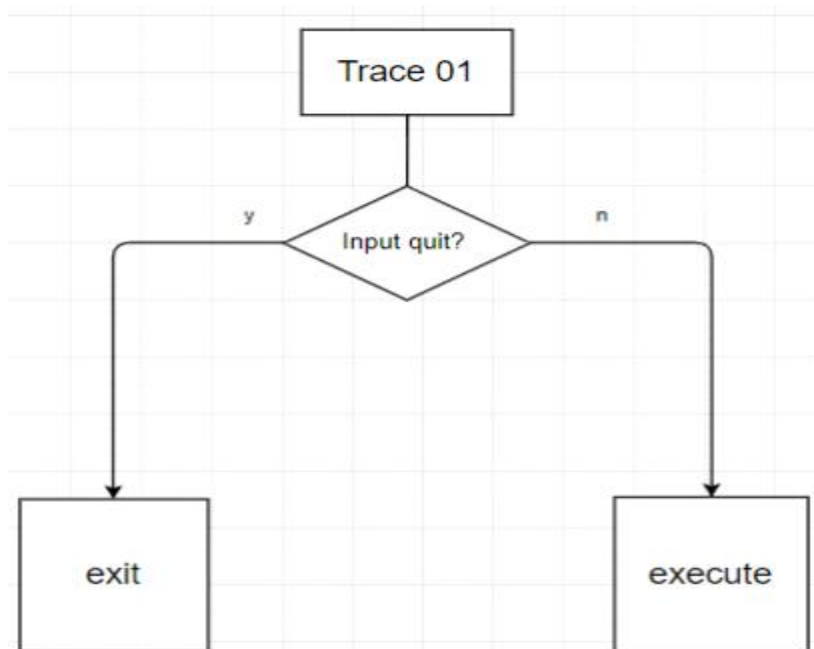
## trace 00 해결 방법 설명

- fflush 명령어로 EOF가 입력되면 쉘창을 종료한다.

## Trace 01

```
a201502023@2018-sp: ~/shlab-handout
a201502023@2018-sp:~/shlab-handout$ ./sdriver -V -t 01 -s ./tsh
Running trace01.txt...
Success: The test and reference outputs for trace01.txt matched!
Test output:
#
# trace01.txt - Process builtin quit command.
#
Reference output:
#
# trace01.txt - Process builtin quit command.
#
a201502023@2018-sp:~/shlab-handout$
```

## trace 01 플로우 차트



## trace 01 해결 방법 설명

- eval()함수에서 입력 받은 명령어를 builtin\_cmd()함수로 전달해서, quit가 입력되면 셸창을 종료한다.

## Trace 02

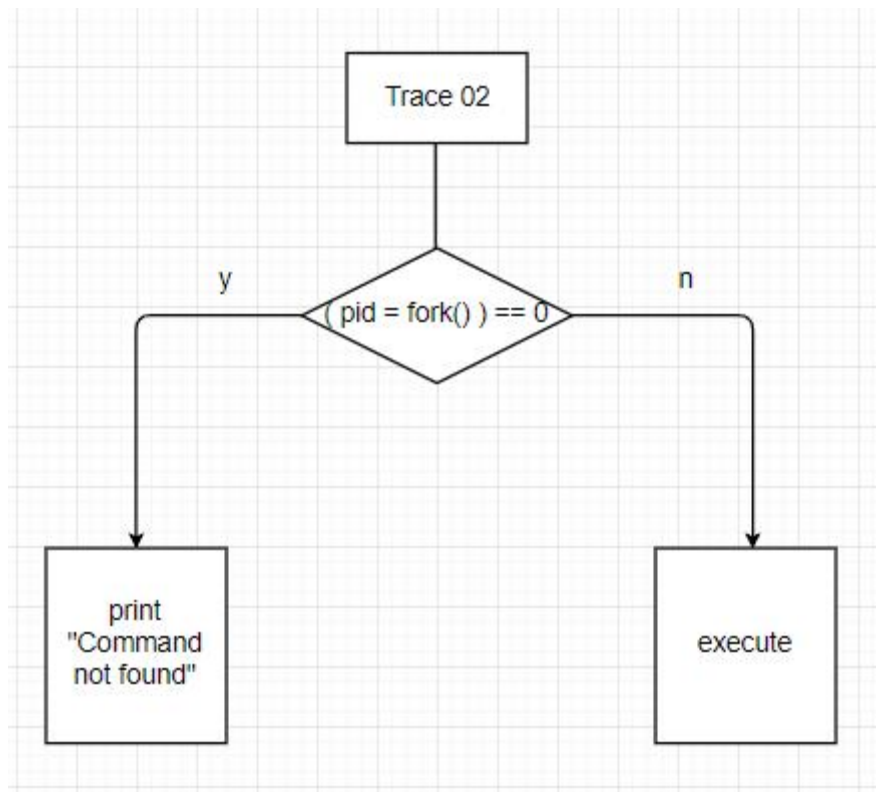
```
a201502023@2018-sp: ~/shlab-handout
a201502023@2018-sp:~/shlab-handout$ ./sdriver -V -t 02 -s ./tsh
Running trace02.txt...
Success: The test and reference outputs for trace02.txt matched!
Test output:
#
# trace02.txt - Run a foreground job that prints an environment variable
#
# IMPORTANT: You must pass this trace before attempting any later
# traces. In order to synchronize with your child jobs, the driver
# relies on your shell properly setting the environment.
OSTYPE=/home/sys00/a201502023/bin:/home/sys00/a201502023/.local/bin:/usr/local/s
bin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games

Reference output:
#
# trace02.txt - Run a foreground job that prints an environment variable
#
# IMPORTANT: You must pass this trace before attempting any later
# traces. In order to synchronize with your child jobs, the driver
# relies on your shell properly setting the environment.
OSTYPE=/home/sys00/a201502023/bin:/home/sys00/a201502023/.local/bin:/usr/local/s
bin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games
a201502023@2018-sp:~/shlab-handout$
```

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trace 02 플로우 차트

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trace 02 해결 방법 설명

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- `fork()` 함수를 통해 자식프로세스를 생성한다. `pid`가 0일 자식프로세스가 생성되므로 조건문으로 들어가 출력문을 출력한다.