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## 2. Homework

1) Make a file with vi.

vi f1

(when you open a file with vi, sometimes you see Open, Edit, ... etc. at the bottom of the screen, in that case just type "e" in order to start editing)

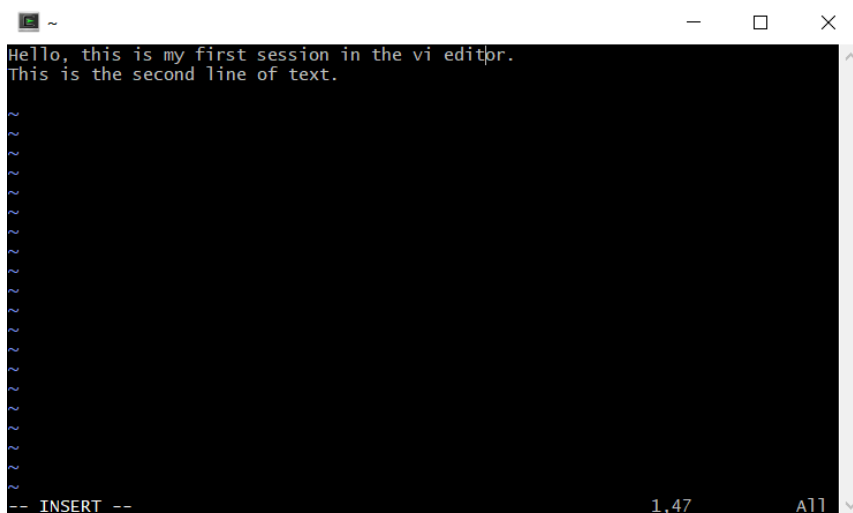


Vi f1 을 입력하면 command 창이 나타난다.

2) Start insertion with 'i' key and type following.

Hello, this is my first session in the vi editor.

This is the second line of text.

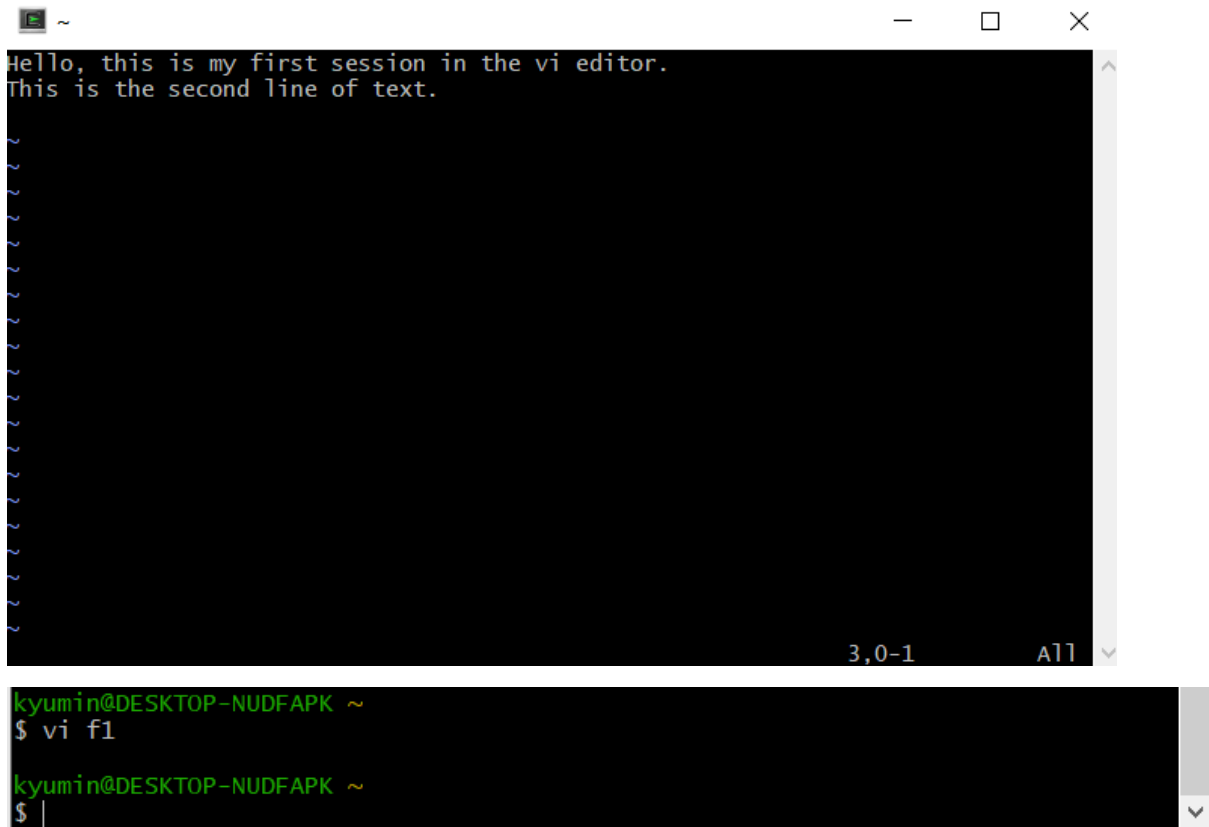


a, o, i 를 누르면 insert mode 로 진입할 수 있다. 이 경우 i 를 눌렀고, i 는 현재 커서에서 입력을 한다는 의미다.

3) Return to command mode with 'esc' key which is located at the top left position of your keyboard. Save and exit with ':wq'

esc

:wq



```
kyumin@DESKTOP-NUDFAPK ~  
$ vi f1  
kyumin@DESKTOP-NUDFAPK ~  
$ |
```

Esc 를 눌러 command mode 로 나온 후 :wq 를 입력하면 저장하고 나가기를 할 수 있다.

4) Reopen the file


vi f1



A screenshot of a terminal window with a black background. At the top left, there is a small icon of a computer monitor followed by a tilde (~). The main area of the terminal displays two lines of white text: "Hello, this is my third session in the vi editor." and "This is the second line of text." Below these lines, there are several vertical wavy lines representing motion or cursor activity. In the bottom right corner, the status bar shows "-- INSERT --" on the left, "1,25" in the middle, and "All" on the right. The window has standard macOS title bar controls (minimize, maximize, close) at the top right.

7) Add a new line as follows. Use 'o' key.


Insert a new line here.



```

~
Hello, this is my third session in the vi editor.
This is the second line of text.
~
~

```

A terminal window with a black background. At the top left is a small icon of a computer monitor with a green cursor. To its right is a tilde (~) symbol. The main area of the terminal contains the text: "Hello, this is my third session in the vi editor." followed by "Insert a new line here." and "This is the second line of text." on separate lines. At the bottom left, there are two more tilde (~) symbols stacked vertically.

```

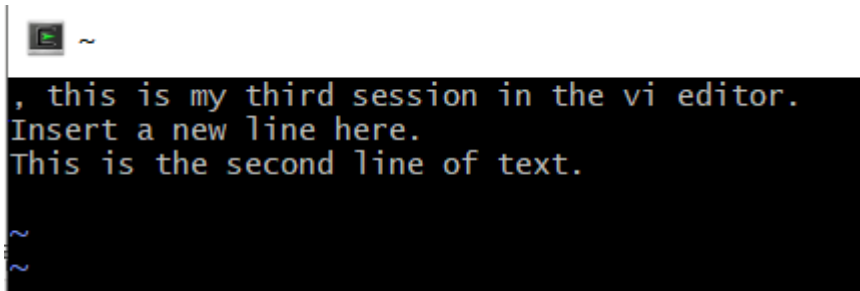
~
Hello, this is my third session in the vi editor.
Insert a new line here.
This is the second line of text.
~
~

```

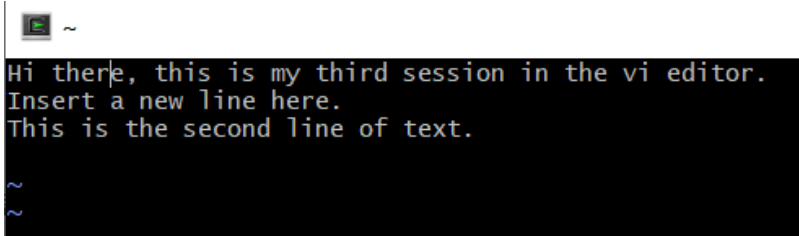
8) Change the beginning as follows. Use 'x' and 'i' key.

Insert a new line here.

This is the second line of text.



```
~  
, this is my third session in the vi editor.  
Insert a new line here.  
This is the second line of text.  
~  
~
```



```
~  
Hi there, this is my third session in the vi editor.  
Insert a new line here.  
This is the second line of text.  
~  
~
```

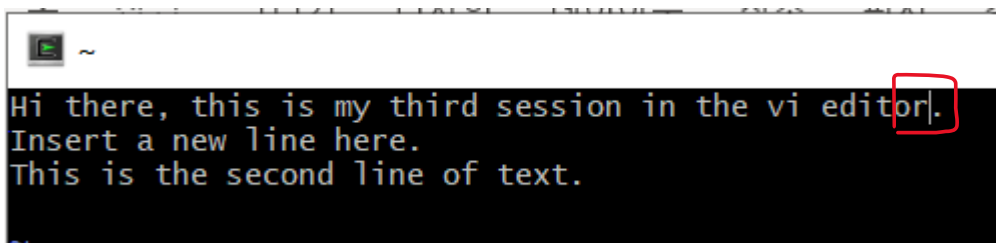
Command 모드에서 첫째 줄의 가장 왼쪽에 커서를 놓고 x 를 눌러 글씨를 삭제하였다. I 를 눌러 insert 모드에 진입 후 “Hi there” 라는 텍스트를 추가하였다.

9) Add more at the end. Use ‘a’ key.

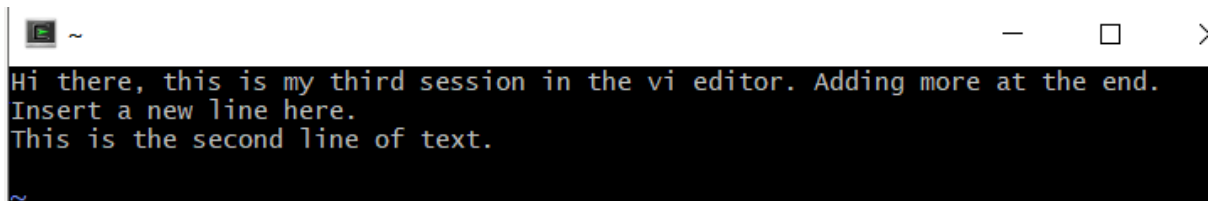
Hi there, this is my third session in the vi editor. Adding more at the end.

Insert a new line here.

This is the second line of text.



```
~  
Hi there, this is my third session in the vi editor|. .  
Insert a new line here.  
This is the second line of text.  
~
```



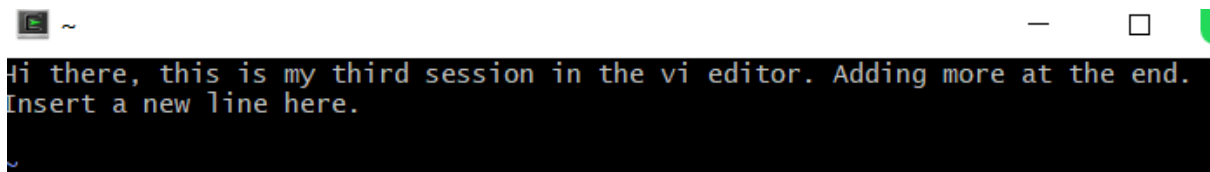
```
~  
Hi there, this is my third session in the vi editor. Adding more at the end.  
Insert a new line here.  
This is the second line of text.  
~
```

첫번째 사진처럼 커서를 잡고 i 를 누른다면 r 과 . 사이에서 입력이 되지만, a 를 누른다면 . 우측에서 입력이 된다. 즉 i 는 현재 커서에서 입력이 되고, a 는 현재 커서 다음 위치에서 입력이 된다는 것을 알 수 있다.

10) Delete the last line. Use ‘dd’.

Hi there, this is my third session in the vi editor. Adding more at the end.

Insert a new line here.



```
~  
Hi there, this is my third session in the vi editor. Adding more at the end.  
Insert a new line here.  
~
```

Dd 를 누른다면 현재 커서가 있는 줄의 모든 내용을 제거한다. 사진에서는 세 번째 줄의 내용이 모두 제거된 것을 볼 수 있다.

11) Add few more lines. Use 'o'.

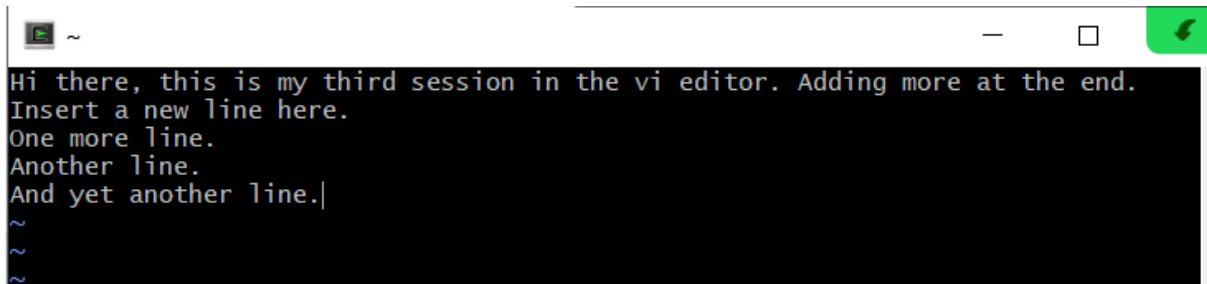
Hi there, this is my third session in the vi editor. Adding more at the end.

Insert a new line here.

One more line.

Another line.

And yet another line.



두 번째 줄에 커서를 잡고, insert 모드 진입 시 o를 눌러 다음줄에 내용을 입력하였다.

12) Change the last line.

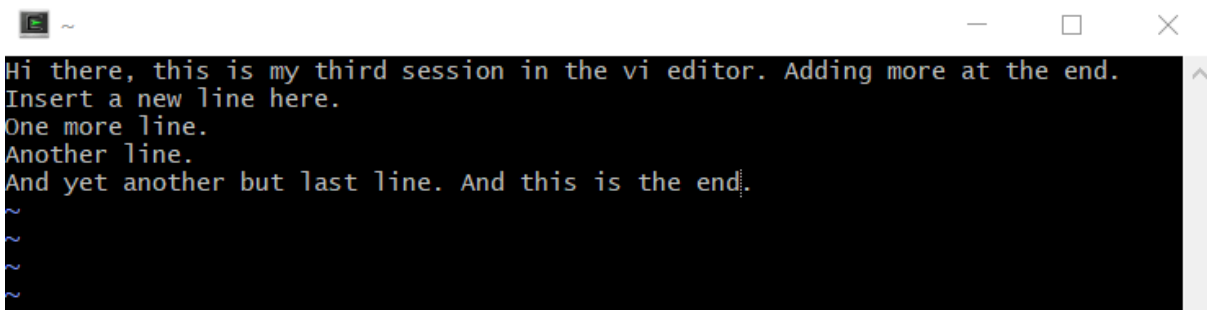
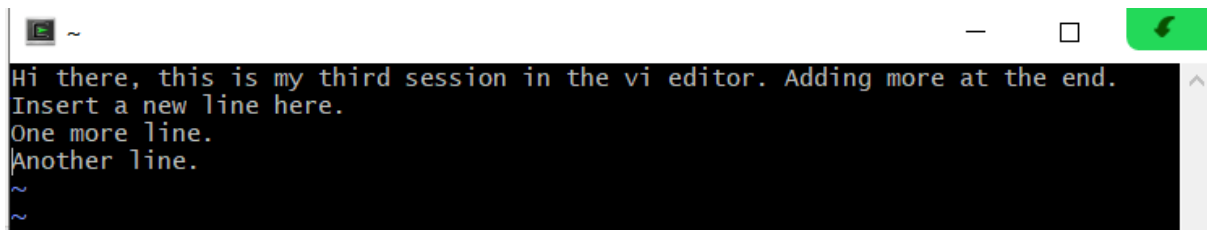
Hi there, this is my third session in the vi editor. Adding more at the end.

Insert a new line here.

One more line.

Another line.

And yet another but last line. And this is the end.



Command 모드에서 5 번째 줄에 커서를 잡고 dd를 눌러 5행의 내용을 모두 제거했고, o를 눌러 새로운 라인에 커서를 잡고, 내용을 입력하였다.

13) Copy and paste as follows. Use '2yy' to copy two lines at the current cursor; move the cursor to another location and use 'p' to paste them at that location.

Hi there, this is my third session in the vi editor. Adding more at the end.

One more line.

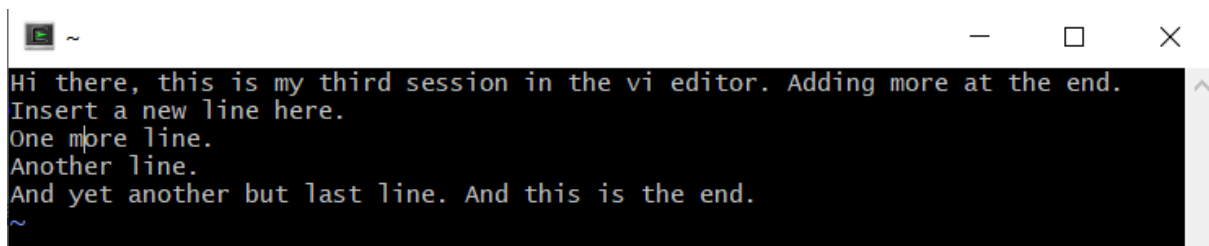
Another line.

Insert a new line here.

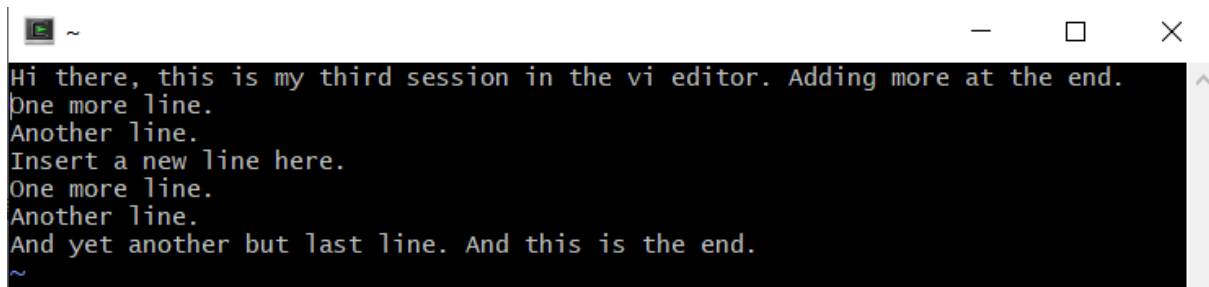
One more line.

Another line.

And yet another but last line. And this is the end.



```
~  
Hi there, this is my third session in the vi editor. Adding more at the end.  
Insert a new line here.  
One more line.  
Another line.  
And yet another but last line. And this is the end.  
~
```



```
~  
Hi there, this is my third session in the vi editor. Adding more at the end.  
One more line.  
Another line.  
Insert a new line here.  
One more line.  
Another line.  
And yet another but last line. And this is the end.  
~
```

세 번째 줄에 커서를 잡고, 2yy 를 입력하였다. 2yy 란 현재 위치한 줄을 포함하여 2 줄의 내용을 복사하라는 의미다. 이후 첫 번째 줄에 커서를 잡고 p 를 눌러 내용을 붙여넣기 하였다.



14) Go to line 6 with ‘:6’ and make change as follows.

Hi there, this is my third session in the vi editor. Adding more at the end.

One more line.

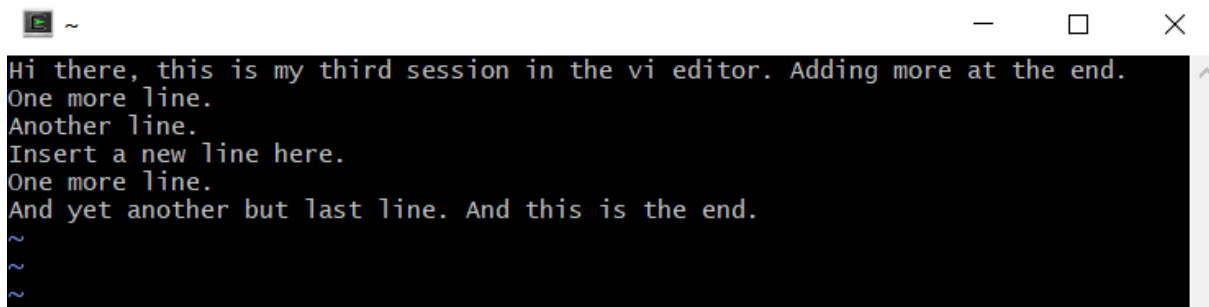
Another line.

Insert a new line here.

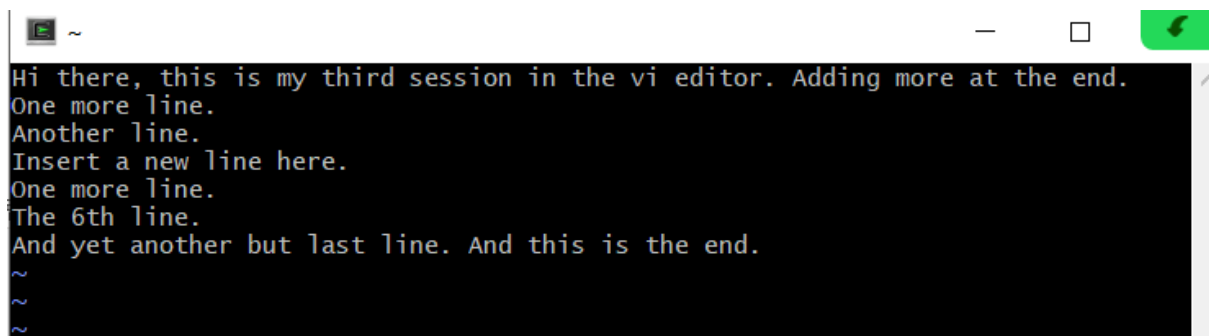
One more line.

The 6th line.

And yet another but last line. And this is the end.



```
~  
Hi there, this is my third session in the vi editor. Adding more at the end.  
One more line.  
Another line.  
Insert a new line here.  
One more line.  
And yet another but last line. And this is the end.  
~  
~  
~
```



```
~  
Hi there, this is my third session in the vi editor. Adding more at the end.  
One more line.  
Another line.  
Insert a new line here.  
One more line.  
The 6th line.  
And yet another but last line. And this is the end.  
~  
~  
~
```

:6 은 6 번째 줄에 커서를 잡으라는 의미다. Dd 를 눌러 6 번째 줄의 내용을 제거했고, 5 번째 줄에 커서를 잡은 후 o 를 눌러 새로운 라인을 추가했고, 그곳에 “The 6 th line.”을 추가했다.

15) Write a simple c program and compile and run.

Write a program:

```
$ vi ex1.c
```

```
#include <stdio.h>

void main(){
    printf("hi there\n");
}
```

Compile:

```
$ gcc -o ex1 ex1.c
```

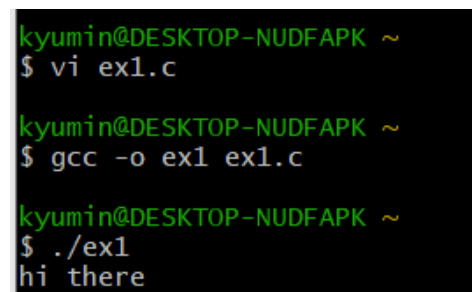
Run:

```
$ ./ex1
```

```
hi there
```

A screenshot of a terminal window with a dark background. The window title is '~'. The code displayed is: 

```
#include <stdio.h>
void main(){
    printf("hi there\n");
}
```

A screenshot of a terminal window with a dark background. The prompt is 'kyumin@DESKTOP-NUDFAPK ~'. The commands and output are: 

```
$ vi ex1.c
kyumin@DESKTOP-NUDFAPK ~
$ gcc -o ex1 ex1.c
kyumin@DESKTOP-NUDFAPK ~
$ ./ex1
hi there
```

Vi ex1.c로 command 모드 진입 후 c언어로 코드를 입력하였다. :wq로 저장하고 나온 후 gcc -o ex1 ex1.c를 입력하였다. 이것은 컴파일이며 ex1.c 라는 c언어를 ex1이라는 파일에 기계어로 저장하는 과정이다. ./ex1으로 해당 코드를 실행했고 정상적으로 "hi there"라는 메시지가 출력 되는 것을 볼 수 있다.