

grep Assignment

1. Use any .c file. Using grep command extract and display
 - a. all lines beginning with #include with line numbers
 - b. display all lines which do not begin with #include
 - c. display the line number of main()
 - d. extract all lines containing characters of opening and closing parenthesis {,}

Ans: grep -n "^#include" pro1.c

grep -v "^#include" pro1.c

grep -n "main()" pro1.c

grep "[{}]" pro1.c

```
user72@trainux01:~/Assignments$ vi file.c
user72@trainux01:~/Assignments$ grep -n '^#include' file.c
user72@trainux01:~/Assignments$ grep -v '^#include' file.c
int main()

{

float num1;

float num2;

float mul;

scanf("%f", &num1);

scanf("%f", &num2);

mul=num1*num2;

printf("\n%.3f",mul);

}

user72@trainux01:~/Assignments$
user72@trainux01:~/Assignments$ grep -n 'main()' file.c
1:int main()
user72@trainux01:~/Assignments$
user72@trainux01:~/Assignments$ grep -n '[{}]' file.c
3:{
19:}
```

2. Perform the above operations on a set of *.c files

Ans: grep -n "^#include" *.c

grep -v "^#include" *.c

grep -n "main()" *.c

grep “[{}()]" *.c

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user72@trainux01:~/Batch20oct2024-202/ChaiFldr$ grep -n '^#include' *.c
det.c:1:#include <stdio.h>
doloop.c:1:#include <stdio.h>
large.c:1:#include <stdio.h>
prog.c:1:#include <stdio.h>
whileloop.c:1:#include<stdio.h>
whileloop.c:2:#include<stdlib.h>
user72@trainux01:~/Batch20oct2024-202/ChaiFldr$ grep -rn '^#include' *.c
det.c:1:#include <stdio.h>
doloop.c:1:#include <stdio.h>
large.c:1:#include <stdio.h>
prog.c:1:#include <stdio.h>
whileloop.c:1:#include<stdio.h>
whileloop.c:2:#include<stdlib.h>
user72@trainux01:~/Batch20oct2024-202/ChaiFldr$ grep -v '^#include' *.c
det.c:
det.c:int main()
det.c:{
det.c:int slno;
det.c:int ID;
det.c:int phno;
det.c:float salary;
det.c:char add[20];
det.c:char degn[20];
det.c:char name[20];
det.c:char gender;
det.c:printf("enter the slno:");
det.c:scanf("%d",&slno);
det.c:
det.c:printf(" enter enter th ID:");
det.c:scanf("%d",&ID);
```