operating system Design Skill exam

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1. Write an xv6 program that count the no.of ordinary files and directory files in the current working directory.
2. Write an xv6 system to find smallest of given three numbers

Codes :-

2.
```
#include "types.h"
#include "stat.h"
#include "user.h"
#include "fcntl.h"
int main(int argc, char * argv[])
{   if(argc < 4)
    {  printf(1,"usage small 1st 2nd 3rd numbers\n");
       exit();
    }
    int a = atoi(argv[1]);
    int b = atoi(argv[2]);
    int c = atoi(argv[3]);
    if(a<b && a<c){
        printf(1,"smallest is %d\n",a);
        exit();
    }
    if(b<c [redacted])
    {  printf(1,"smallest is %d\n",b);
       exit();
    }
    printf(1,"smallest is %d\n",c);
   return 0;
}
```

step: 2 nano small.c and add the above code

step: 3 nano Makefile

step: 4 under UPROGS add _small\
under extras add small.c

step: 5 make qemu-nox

$ small 1 2 3

output: Smallest is 1

1.
```
#include <stdio.h>
#include <dirent.h>
int main(void)
{
    struct dirent *de;
    DIR *dr = opendir(".");
    if (dr == NULL)
    {
        printf("could not open current directoly");
        return 0;
    }
    int count = 0;
    while((de = readdir(dr)) != NULL) {
        printf("%s\n", de->d_name);
        count = count + 1;
    }
    printf("Total files are %d\n", count);
    closedir(dr);
    return 0;
}
```