OPERATING SYSTEM

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Q. Write a C program to list all the files that have been created after a certain date. Inputs to the program : directory and date

CODE:

```c
#include <stdio.h>

#include <stdlib.h>

#include <dirent.h>

#include <sys/stat.h>

#include <time.h>

int main () {
  DIR *d;

  struct dirent *dir;

  struct stat stats;

  struct tm dt;

  char dirname[256];

  printf("Enter directory ('.' for current directory): "); fflush(stdout);

  scanf("%s", dirname);

  d = opendir(dirname);
```

```c
int dd, mm, yyyy;

printf("Enter date: "); fflush(stdout);

scanf("%d", &dd);

printf("Enter month: "); fflush(stdout);

scanf("%d", &mm);

printf("Enter year: "); fflush(stdout);

scanf("%d", &yyyy);


if (!d) {

  printf("Error opening directory!");

  exit(0);

}


while ((dir = readdir(d))) {

  if (stat(dir->d_name, &stats) == 0) {

    dt = *gmtime(&stats.st_ctime);

    int d = dt.tm_mday;

    int m = dt.tm_mon+1;

    int y = dt.tm_year + 1900;


    if (yyyy < y)

      printf("File: %s\n", dir->d_name);

    else if (yyyy == y && mm < m)

      printf("File: %s\n", dir->d_name);

    else if (yyyy == y && mm == m && dd < d)
```
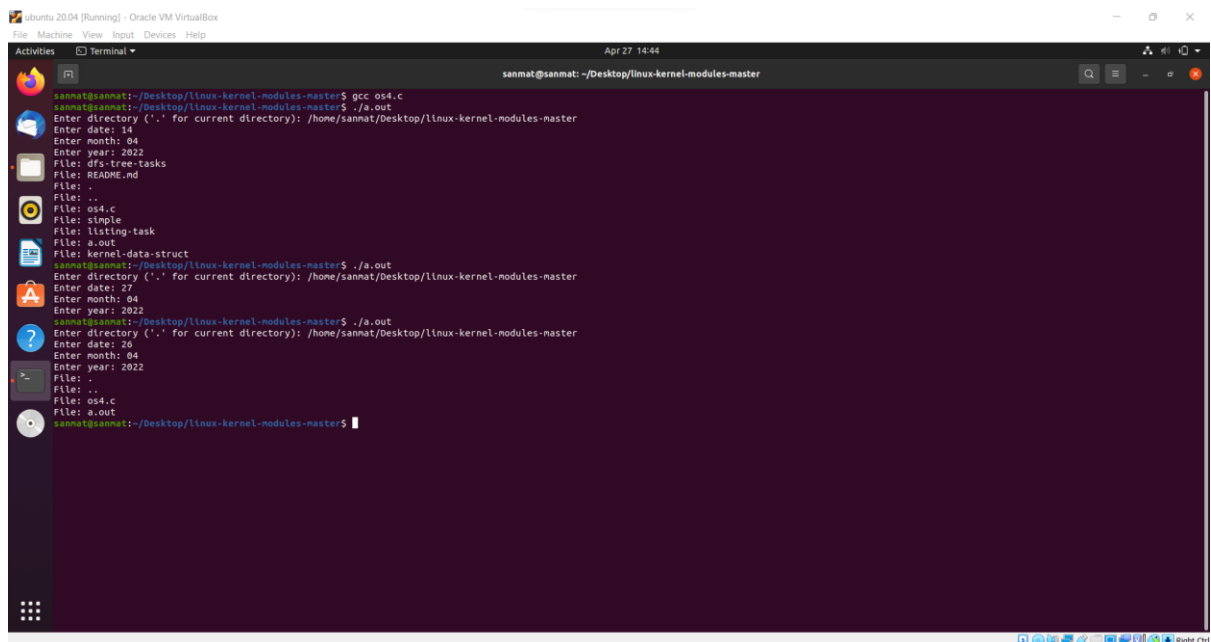
```
            printf("File: %s\n", dir->d_name);

    }

    else

        printf("Couldn't read file properties of file: %s", dir->d_name);

    }

    closedir(d);


    return 0;

}
```

OUTPUT: