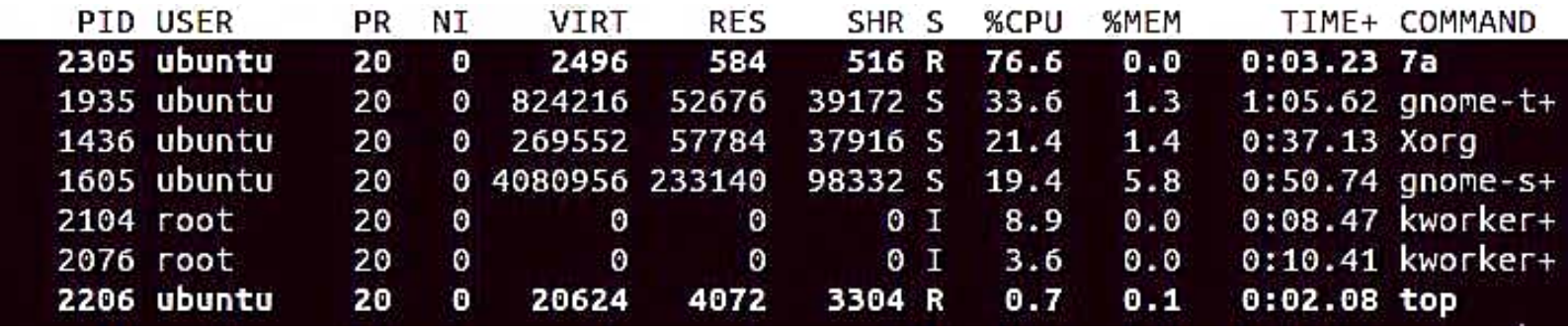
```
ubuntu@ubuntu2004:~/Desktop/ex_7$ ./7a
0 prime numbers calculated
1 prime numbers calculated
2 prime numbers calculated
2 prime numbers calculated
3 prime numbers calculated
3 prime numbers calculated
4 prime numbers calculated
4 prime numbers calculated
4 prime numbers calculated
4 prime numbers calculated
5 prime numbers calculated
```

```c
#include<stdio.h>
#include<time.h>
int main(){
int j,k,n;
while(1){
printf("Enter any number:");
scanf("%d",&j);
printf("Enter any number:");
scanf("%d",&k);
n=j%k;
printf("remainder: %d",n);
time_t rawtime;
struct tm* timeinfo;
time(&rawtime);
timeinfo= localtime(&rawtime);
printf("\nCurrent local time and
```



PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
2305	**ubuntu**	**20**	**0**	**2496**	**584**	**516**	**R**	**76.6**	**0.0**	**0:03.23**	**7a**
1935	ubuntu	20	0	824216	52676	39172	S	33.6	1.3	1:05.62	gnome-t+
1436	ubuntu	20	0	269552	57784	37916	S	21.4	1.4	0:37.13	Xorg
1605	ubuntu	20	0	4080956	233140	98332	S	19.4	5.8	0:50.74	gnome-s+
2104	root	20	0	0	0	0	I	8.9	0.0	0:08.47	kworker+
2076	root	20	0	0	0	0	I	3.6	0.0	0:10.41	kworker+
2206	**ubuntu**	**20**	**0**	**20624**	**4072**	**3304**	**R**	**0.7**	**0.1**	**0:02.08**	**top**

```
Enter any number: 85

Enter any number: 69
16
Current local time and date: Wed Nov 23 22:26:21 2022
Enter any number:
```

```
top - 22:26:50 up 45 min,  1 user,  load average: 0.48, 0.46, 0.32
Tasks: 222 total,   1 running, 221 sleeping,   0 stopped,   0 zombie
%Cpu(s):  6.0 us,  0.0 sy,  0.0 ni, 94.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   3923.3 total,   1237.8 free,    977.9 used,   1707.7 buff/cache
MiB Swap:   2090.0 total,   2090.0 free,      0.0 used.   2659.0 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
   3781 root      20   0       0      0      0 I   0.0   0.0   0:03.24 kworker/u10:2-events_unbound
   3782 rakshit   20   0   21864   4208   3348 R   0.0   0.1   0:00.98 top
   3793 rakshit   20   0    2772   1848    960 S   0.0   0.0   0:00.00 a.out
```

```c
#include<stdio.h>
#include<time.h>
void main(){
clock_t start, end;
double runtime;
start = clock();
int i, num=1, prime =0;
while(num<=10000000){
i=2;
while(i<=num){
if(num%i==0)
break;
i++;
}
if(i==num)
prime++;
```