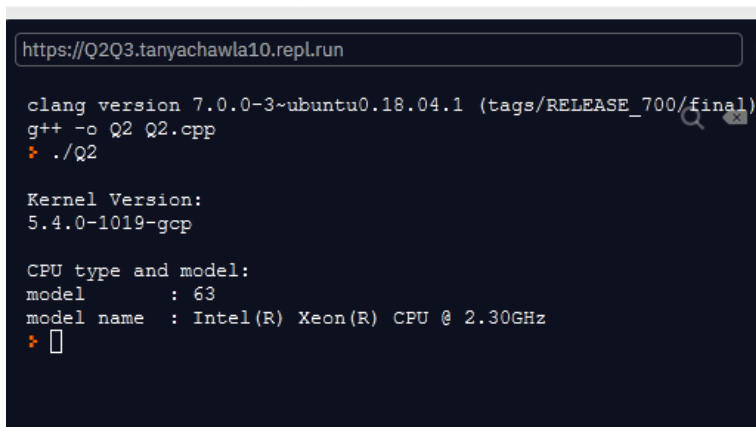


2. Write a program to report behaviour of Linux kernel including kernel version, CPU type and model. (CPU information)

```
A2.  #include<stdio.h>
      #include<stdlib.h>
      #include<unistd.h>
      int main()
      {
          int a;
          printf("\nKernel Version: \n");
          system("cat /proc/sys/kernel/osrelease");
          printf("\nCPU type and model: \n");
          system("cat /proc/cpuinfo | awk 'NR==4,NR==5{print}'");
          return 0;
      }
```

OUTPUT



```
https://Q2Q3.tanyachawla10.repl.run

clang version 7.0.0-3~ubuntu0.18.04.1 (tags/RELEASE_700/final)
g++ -o Q2 Q2.cpp
$ ./Q2

Kernel Version:
5.4.0-1019-gcp

CPU type and model:
model       : 63
model name  : Intel(R) Xeon(R) CPU @ 2.30GHz
$
```

3. Write a program to report behaviour of Linux kernel including information on 19 configured memory, amount of free and used memory. (memory information)

```
A3.  #include<stdio.h>
      #include<stdlib.h>
      #include<unistd.h>
      int main()
      {
          int a;
```

```
    printf("\nKernel Version: \n");  
    system("cat /proc/sys/kernel/osrelease");  
    printf("\nInformation on configured amount of free and used memory: \n");  
    system("cat /proc/meminfo | awk 'NR==1,NR==2{print}'");  
    return 0;  
}
```

OUTPUT

```
https://Q2Q3.tanyachawla10.repl.run  
  
clang version 7.0.0-3~ubuntu0.18.04.1 (tags/RELEASE_700/final)  
g++ -o Q3 Q3.cpp  
❏ ./Q3  
  
Kernel Version:  
5.4.0-1019-gcp  
  
Information on configured amount of free and used memory:  
MemTotal:      26694624 kB  
MemFree:       1058200 kB  
❏
```