```
#include <stdio.h>
#include <stdlib.h>
int main(int argc, char *argv[])
   double factorial = 1.0;
   if (argc < 2)
        fprintf(stderr, "Usage: %s <non-negative integer>\n", argv[0]);
   num = atoi(argv[1]);
        fprintf(stderr, "Error: Factorial of a negative number is undefined.\n");
   printf("%.0f\n", factorial);
```

```
seng265@lab-04$ gcc q_factorial.c -std=c99 -o q_factorial
seng265@lab-04$ ./q_factorial enon-negative integer>
seng265@lab-04$ ./q_factorial -1
Error: Factorial of a negative number is undefined.
seng265@lab-04$ ./q_factorial 0
1
seng265@lab-04$ ./q_factorial 5
120
seng265@lab-04$ ./q_factorial 120
66895029134491239336813425306579439120523775756341546089360093784620090324126011858610763674005344861930779387322735825
049576193801545269664994272835560837966773424760538449951889918907707412713570304
seng265@lab-04$ ./q_factorial 20000
inf
seng265@lab-04$ ./q_factorial 6
8320987112741391580056396102959641077457945541076708813599085350531187384917164032
```