```
lab2
Q1:
 lab2 > C Q1.c > ...
            #include <math.h>
     1
     2
            #include <stdio.h>
     3
     4
          int main() {
                   double d = sqrt(x: 2);
     5
                   printf(format: "sqrt 2:%f\n", d);
     6
     7
                           return 0;
     8
     q
dgy@dgy-ubuntu ~/g/os (master)> cd lab2
dgy@dgy-ubuntu ~/g/o/lab2 (master)> gcc Q1.c
dgy@dgy-ubuntu ~/g/o/lab2 (master)> ./a.out
sqrt 2:1.414214
dgy@dgy-ubuntu \sim/g/o/lab2 (master)> file <u>a.out</u>
a.out: ELF 64-bit LSB pie executable, x86-64, version 1 (SYSV), dynamically linked, interpreter /
lib64/ld-linux-x86-64.so.2, BuildID[sha1]=456af6fd0d435ded7040275dc83ca703292fad6f, for GNU/Linux
 3.2.0, not stripped
dgy@dgy-ubuntu ~/g/o/lab2 (master)>
Q2:
  3.2.0, not stripped
 dgy@dgy-ubuntu \sim/g/o/lab2 (master)> cat Q2.c && gcc Q2.c && ./a.out && file a.out
 #include <stdio.h>
 #define SUM(x)(x)+(x)
 int main() {
         printf("Name: Dai Guoyi\n");
         printf("SID: 12011211\n");
 Name: Dai Guoyi
 SID: 12011211
 a.out: ELF 64-bit LSB pie executable, x86-64, version 1 (SYSV), dynamically linked, interpreter /
 lib64/ld-linux-x86-64.so.2, BuildID[sha1]=040cf7ab19c1f18c387b9a0a3af2988d697265f9, for GNU/Linux
  3.2.0, not stripped
Q3:
preprocess c file and header files, compile c files into object files, then link object files and static
library together
Q4:
Windows is PE (Portable Executable) and Linux is ELF (Executable Linkable Format)
Q5:
```

```
M Makefile U X
   lab2 > M Makefile
     1 CC=gcc
     2
     3 \rightarrow file1: Q1
              ./Q1
     4
     5
     6 v file2: Q2
              ./Q2
     7
     8
     9 \% : %.C
              $(CC) -o $@ $<
    10
    11
    12 v clean:
         输出
   问题
             调试控制台
                        终端
                              GITLENS
   dgy@dgy-ubuntu ~/g/o/lab2 (master)> make Q1
   gcc -o Q1 Q1.c
   dgy@dgy-ubuntu ~/g/o/lab2 (master)> make file1
   ./Q1
   sqrt 2:1.414214
   dgy@dgy-ubuntu ~/g/o/lab2 (master)> make file2
   gcc -o Q2 Q2.c
   ./Q2
   Name: Dai Guoyi
   SID: 12011211
   dgy@dgy-ubuntu ~/g/o/lab2 (master)>
Q6:
将宏文件展开
  CACCIII IIIC ___ 01 COM (1 ILL
  extern int overflow (FILE *, int);
  # 909 "/usr/include/stdio.h" 3 4
  # 3 "defile.c" 2
  # 4 "defile.c"
  int main(void)
      printf("%d", (4*3)+(4*3)*(4*3)+(4*3));
  }
```

168