4. (40 points) Implement program accumulator and sendnum. The program accumulates the numbers (long integer) from multiple Message Queues, then print it to standard output. The program uses one thread per message queue. The number of message queues is set by command-line option—q. The default value is 1.

\$ /accumulator —q 2 & [1] 26721 queue ID 0 is 98307 queue ID 1 is 131076
\$ /sendnum 0x100 50 sum is 50.

\$ /sendnum 0x101 30 sum is 80.

```
#indade opue.h" (Isend mun. 生活消息 struct msy f long my type;
        Ji long value;
  int main (int ange, char and angle)
          key-t key;
          long value;
 int id;
struct masg m;
if cargo (=3) ferr sys ("usage: 1/5 key value\n",0
                  ong v [2]);
        sscanflongv[1], "xx", &key);
 $$ counf (ongv[2], "**Id", broke); fail to get if ((id = msyget (key, on) < 0) { em-sys("enor: Mos...");}
   m.mtype = 1;
    m. Halle = value;
      if (msgsnd(id, Qm, sizeof((ong), 0) <0) {

err-sys(" fail to sond mesg"); }
   y return 0;
```