```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <unistd.h>
   4 #include <sys/mman.h>
5 #include <sys/shm.h>
5 #include <sys/shm.h>
6 #include <sys/stat.h>
7 #include <fcntl.h>
8 #include <sys/wait.h>
9 #include <string.h>
10 #include <tine.h>
11 ////////////gcc -o m multiprocess_1.c -lrt
12 float grade1A[] = {2.5,4,4,4,2.5,2.5};//15,6
13 float weight1A[] = {3,3,2,1,3,3,3};
14 float sum1A=0;
 14 TLOAT SUMIA=0;

15

16 float grade1B[] = {4,3,2.5,3.5,4,4,3.5,4};//20,8

17 float weight1B[] = {3,3,3,1,1,3,3,3};

18 float sum1B=0;
 19
 20 float grade2A[] = {4,2.5,3,4,3.5,4,4,3}; //20,8
21 float weight2A[] = {3,3,3,3,1,3,1,3};
22 float sum2A=0;
23
24 float grade2B[] = {4,4,3.5,4,3.5,3.5,2,2,2.5}; //21,9
25 float weight2B[] = {3,1,3,1,1,3,3,3,3};
26 float sum2B=0;
27
28 float grade3A[] = {4,4,4,4,4,4,4,4,4,4}; //21,9
29 float weight3A[] = {3,1,3,3,1,3,3,3,1};
30 float sum3A=0;
31 float gradeAll=0;
32
 23
32
33 void delay(int num){
34     int milli_sec = 1000*num;
35     clock_t start_time = clock();
36     while(clock() < start_time + milli_sec);
 32
 37 }
 38 void DoWorkInChild(){
                          39
40
 41
42
                            }
sum1A = sum1A/15;
 43
44
45
                          for(i=0; i<8; i++){ //20,8
     sum1B+=qrade1B[i]*weiqht1B[i];</pre>
 46
```

```
48
             sum1B = sum1B/20;
 49
            50
 51
 52
             }
 53
            sum2A = sum2A/20;
 54
 55
            for(i=0; i<9; i++){ //21,9</pre>
 56
                     sum2B+=grade2B[i]*weight2B[i];
 57
 58
             sum2B = sum2B/21;
 59
            for(i=0; i<9; i++){ //21,9</pre>
 60
 61
                      sum3A+=grade3A[i]*weight3A[i];
 62
 63
            sum3A = sum3A/21;
 64
            delay(2000);
 65
 66 }
 67 void DoWorkInParent(){
 68
            int i;
 69
 70
             printf("Grade AVG: %.2f \n",gradeAll);
            delay(2000);
 71
72 }
            int n = 1;

for (i = 0; i < n; ++i) {

    pids[i] = fork();

    int n = 1;
 76
 77
 78
                     plas[i] = loik(),
if (pids[i] < 0) {
        perror("fork");
        abort();</pre>
 79
 80
 81
                      } else {
 82
                               if (pids[i] == 0) {
    DoWorkInChild();
 83
 84
                                       delay(2000);
exit(0);
 85
 86
 87
                               }
 88
                      }
 89
         DoworkInParent();
 90
91
         delay(2000);
```