四.3

```c
#include <stdio.h>

int main() {
 double score[10][5] = {{87,89,67,56,54},{65,63,87,78,56},{87,65,67,54,46},{90,67,54,46,76},{56,76,78,65,76},
 {43,54,65,76,47},{87,57,54,76,87},{82,94,85,85,53},{74,62,58,73,83},{87,67,58,74,87}};
 double result1[10];
 double result2[5];
 double * average(double score[][5], double *);
 double *p;
 p = average(score,result1);
 double *avergaeclazz(double score[][5], double *);
 double *c;
 c = avergaeclazz(score,result2);
 double abc(double *av, int n);
 double sa = abc(p, 10);
 double ca = abc(c, 5);
 for (int i = 0; i < 10; ++i) {
 for (int j = 0; j < 5; ++j) {
 printf("%f\t",score[i][j]);
 }
 printf("\n");
 }
 for (int k = 0; k < 10; ++k) {
 printf("%f\t", *(p+k));
 }
 printf("\n");
 for (int l = 0; l < 5; ++l) {
 printf("%f\t", *(c + l));
 }
 printf("\nsa=%f\tca=%f\n",sa,ca);

 return 0;
}
double * average(double score[][5], double *result){
 for (int i = 0; i < 10; ++i) {
 double all = 0;
 for (int j = 0; j < 5; ++j) {
```

```
 all+=score[i][j];
 }
 result[i] = all / 5;
 }
 return result;
}
double * avergaeclazz(double score[][5], double *result){
 for (int i = 0; i < 5; ++i) {
 double all = 0;
 for (int j = 0; j < 10; ++j) {
 all+=score[j][i];
 }
 result[i] = all / 10;
 }
 return result;
}

double abc(double *av,int n){
 double a=0,b=0;
 for (int i = 0; i < n; ++i) {
 a += *(av+i) * *(av+i);
 b += *(av+i);
 }
 a = a/n;
 b = b/n;
 b=b*b;
 return a-b;
}
```

四.4

```
#include <stdio.h>
#include <stdlib.h>
int prism(int n){
 for (int i = 2; i < n/2; ++i) {
 if (n%i==0){
 return 0;
 }
 }
 return 1;
}
```

```
11
12 int main() {
13  int n,a=0,b=0;
14  scanf("%d", &n);
15  for (int i = 3; i < n-3; ++i) {
16  if (prism(i)&&prism(n-i)){
17  a=i;
18  b=n-i;
19  break;
20  }
21  }
22  printf("a=%d\tb=%d\n", a, b);
23  FILE *f;
24  if ((f=fopen("result.dat","wb"))==NULL){
25  printf("open file error");
26  exit(0);
27  }
28  fwrite(&a, sizeof(int), 1, f);
29  fwrite(&b, sizeof(int), 1, f);
30  fclose(f);
31  return 0;
32 }
```