

```
1  #include <stdio.h>
2  #include <conio.h>
3  // bài 2 vo ghi
4  main (){
5      int n,i;
6      FILE *f;
7      f= fopen("ltnc.txt", "r");
8      fscanf (f,"%d", &n);
9      int a[100], tong = 0;
10     for (int i =1; i<=n; i++) fscanf (f,"%d", &a[i]);
11     fclose (f);
12     printf (" so phan tu là %d ",n);
13     for ( i =1; i<=n; i++) printf (" \n%d", a[i]);
14     for (int i =1; i<=n; i++) tong += a[i];
15     f = fopen ("output.txt","w");
16     fprintf (f, " %d", tong);
17     fclose(f);
18     int max = a[1];
19     for (int i =1; i<=n; i++) if (a[i] > max) max = a[i];
20     f = fopen ("output1.txt","w");
21     fprintf (f, " %d", max);
22     fclose (f);}
```

```
1  #include <stdio.h>
2  #include <conio.h>
3  // bài 2 vo ghi
4  // so thuc
5  main ()
6      int n,i;
7      FILE *f;
8      f= fopen("ltnc.txt", "r");
9      fscanf (f,"%d", &n);
10     float a[100], tong = 0;
11     for (int i =1; i<=n; i++) fscanf (f,"%f", &a[i]);
12     fclose (f);
13     printf (" so phan tu là %d ",n);
14     for ( i =1; i<=n; i++) printf (" \n%.3f", a[i]);
15     for (int i =1; i<=n; i++) tong += a[i];
16     f = fopen ("output.txt","w");
17     fprintf (f, " %.3f", tong);
18     fclose(f);
19     float max = a[1];
20     for (int i =1; i<=n; i++) if (a[i] > max) max = a[i];
21     f = fopen ("output1.txt","w");
22     fprintf (f, " %.3f", max);
23     fclose (f);
```

```

1  #include <stdio.h>
2  // bài 4 vo ghi
3  // ma tran
4  main (){
5      int m,n,i,j;
6      FILE *f;
7      f= fopen("matran.txt", "r");
8      fscanf (f,"%d%d", &m,&n);
9      int a[50][50];
10     for ( i =1; i<=m; i++) {
11         for ( j =1; j<=n; j++) {
12             fscanf (f,"%d", &a[i][j]);
13         }
14     }
15     fclose (f);
16     printf (" cap ma tran là %dx%d \n",m,n);
17
18     for ( i =1; i<=m; i++) {
19         for ( j =1; j<=n; j++) { printf ("%d ", a[i][j]);
20             } printf ("\n");
21     }
22     int t = 1;
23     for ( i =1; i<=m; i++) {
24         for ( j =1; j<=n; j++) {
25             if ( i > j && m == n && a[i][j] != 0) t = 0;
26         }
27     }
28     f = fopen ("output.txt","w");
29     fprintf (f, "%d",t);
30     fclose(f);
31 }

```

```
1  #include <stdio.h>
2  #include <conio.h>
3  main()
4  {
5      FILE *fp;
6      char ch;
7      printf("Nhap cac ki tu : ");
8      fp=fopen("D:\\textfile.txt","wt");
9
10     while ((ch=getchar())!=EOF)
11     {
12         putc(ch,fp);
13     }
14     fclose(fp);
15     getch();
}
```

```
1  #include <stdio.h>
2  #include <conio.h>
3  #include <math.h>
4  void nhap(char *tenFile, int *a, int n);
5  void xuat(char *tenFile, int *a, int n);
6
7  main()
8  {   int n; int a[100];
9      int i;
10     FILE *f;
11     nhap ( "input.txt",a,n);
12     // in ra man hinh de kiem tra
13     for (int i = 1; i <= n; i++) printf("%d ", a[i]);
14     printf("\n");
15     getch();
16     // xuat ra file
17     xuat("output.txt", a, n);
18 }
```

```
19 void nhap(char *tenFile, int *a, int n){
20
21     // mo file de doc
22     FILE* f = fopen("input.txt", "r");
23     if (f == NULL) printf("Khong mo duoc tap tin!");
24
25     fscanf(f, "%d", &n);
26
27     for (int i = 1; i <= n; i++) fscanf(f, "%d", &a[i]);
28
29     //dong file
30     fclose(f);
31 }
32 void xuat(char *tenFile, int *a, int n){
33     //mo file de ghi
34     FILE* f = fopen("output.txt", "wt"); // wt = write (ghi) + text (dang van ban)
35     //ghi du lieu ra file
36     for (int i = 1; i <=n; i++)
37         fprintf(f, "%d ", a[i]);
38     // dong file
39     fclose(f);
40 }
```

```

1  #include <stdio.h>
2  #include <conio.h>
3  #include <stdlib.h>
4  #include <string.h>
5  // bai 2 trang 129 laptrinhnangcao
6  struct hanghoa {
7      char tenhang[30];
8      int soluong;
9      char loaihang[30];
10 };
11
12 typedef hanghoa HH;
13 void nhap(HH a[], int n){
14     for(int i = 1; i <= n; ++i){
15         printf("\nNhap HH thu %d:", i);
16         printf("\nNhap ten hang : "); fflush(stdin); gets(a[i].tenhang);
17         printf("Nhap loai hang: "); gets(a[i].loaihang);
18         printf("Nhap so luong hang: "); scanf("%d", &a[i].soluong);
19     }
20 void xuat(char *tenFile, HH a[], int n){
21     FILE* f = fopen("hanghoa.txt", "wt");
22     for(int i = 1; i <= n; i++){
23         struct hanghoa HH = a[i];
24         fprintf(f, "\nNhap HH thu %d:", i);
25         fprintf(f, "\nten hang : %s", a[i].tenhang); fflush(stdin);
26         fprintf(f, "\nloai hang : %s", a[i].loaihang);
27         fprintf(f, "\nso luong hang : %d", a[i].soluong);
28     } fclose (f);
29 }
30

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30
31 void xuatN( HH a[], int n){
32     for(int i = 1;i <= n;i++){
33         printf("\nhang hoa thu %d:", i);
34         printf("\nten hang : %s", a[i].tenhang);fflush(stdin);
35         printf("\nloai hang : %s", a[i].loaihang);
36         printf("\nsố lượng hang : %d", a[i].soluong);;
37     }
38 }
39 void timhanghoa(char *ten,HH a[], int n){
40     int found = 0;
41     printf ( " ten hang hoa can tim la ");
42     fflush(stdin); gets(ten);
43     for(int i=1; i<=n; ++i){
44         if(strcmp(a[i].tenhang,ten)==0) {
45             xuatN(a,n);
46             found = 1;
47         }
48
49         if ( found == 0) printf ( " không tìm thấy hang hoa");}
50 }
51 int main (){
52     int n; char ten[30];
53     do{
54         printf("\nNhập n : "); scanf("%d", &n);
55     }while(n <= 0);
56     HH a[n];
57     nhap(a, n);
58     xuatN( a, n);
59     xuat("hanghoa.txt",a, n);
60     fflush(stdin); gets(ten);
61     timhanghoa("n",a, n);
62 }
63

```



```

1  #include <stdio.h>
2  #include <stdlib.h>
3  // bài 3 sbt tr 129
4  // ma tran
5  void nhap( float *a ,int n, int m,int N){
6      for(int i=0 ; i<n ; i++){
7          for( int j=0 ; j<m ; j++){
8              printf("a[%d][%d]= ",i,j);
9              scanf("%f ",a + i*N + j);
10         }
11     }
12 }
13 void xuat(float *a ,int n, int m, int N){
14     printf ("%d x %d\n",n,m);
15     for(int i=1 ; i<=n ; i++){
16         for(int j=1 ; j<=m ; j++){
17             printf("%f ", *(a + i*N + j));
18         }
19         printf("\n");
20     }
21 }
22 void nhapfile(char *tenfile,float *a ,int n, int m, int N){
23     FILE*f= fopen("matran.txt", "r");
24     fscanf (f,"%d %d", &n,&m);
25     for ( int i =1; i<=n; i++) {
26         for ( int j =1; j<=m; j++) {
27             fscanf (f,"%f ", *(a + i*N + j));
28         }
29     }
30     fclose (f);}
31 void xuatfile(char *tenfile,float *a ,int n, int m, int N){
32     FILE*f= fopen("matran1.txt", "wt");
33     fprintf (f,"%d %d",n,m);
34     for ( int i =1; i<=n; i++) {
35         for ( int j =1; j<=m; j++) {
36             fprintf (f,"%f ", *(a + i*N + j));

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37     }
38 }
39 fclose (f);}
40 void ghinhiphan (char *tenfile,float *a ,int n, int m){
41     FILE *fp;
42     if ((fp = fopen("matran2.txt","wb"))== NULL) printf(" khong mo dc file \n"); exit(1);
43     for ( int i =1; i<=n; i++) {
44         for ( int j =1; j<=m; j++) {
45             fwrite (&a, sizeof(float),1,fp);
46         }
47     }fclose (fp);
48 }
49 void docnhiphan (char *tenfile,float *a ,int n, int m){
50     FILE *fp;
51     if ((fp = fopen("matran3.txt","wb"))== NULL) printf(" khong mo dc file \n"); exit(1);
52     for ( int i =1; i<=n; i++) {
53         for ( int j =1; j<=m; j++) {
54             fread (&a, sizeof(float),1,fp);
55         }
56     }fclose (fp);
57 }
58 int main (){
59     FILE *f; FILE *fp;
60     int m,n,i,j;
61     scanf ("%d%d", &n,&m);
62     float a[50][50];
63     //nhap((float*)a , n ,m, 50);
64     //xuat((float*)a ,n, m,50);
65     nhapfile("matran.txt",(float*)a ,n, m,50);
66     //xuatfile("matran1.txt",(float*)a ,n, m,50);
67     xuat((float*)a ,n, m,50);
68     xuatfile("matran1.txt",(float*)a ,n, m,50);
69     xuat((float*)a ,n, m,50);
70     ghinhiphan ("matran2.txt",(float*)a ,n, m);
71     docnhiphan ("matran3.txt",(float*)a ,n, m);
72 }
73

```