(2.)

```
#include <string.h>
#include <stdio.h>
#include <stdlib.h>

Struct Produs
{
    char nume[20];
    float pret;
};

Struct Magaziu
{
    char *id;
    int nr;
    struct Produs *prod;
};

void scrie (Magaziu a, char *myfile)
{   FILE *out;
    out = fopen (myfile, "w");
    fprintf (out, "%s", a.id);
    fprintf (out, " ");
    fprintf (out, "%d ", a.nr);
    fprintf (out, "%s %f ", a.prod -> nume, a.prod -> pret);
    fclose (out);
}

void citire (Magaziu *a, char *myfile)
{ FILE *in; int nr;
    in = fopen (myfile, "rb");
    fread (&nr, sizeof(nr), 1, in);
    a -> id = (char *) malloc ((nr+1) * sizeof (char));
    a -> prod = (struct Produs *) malloc
    fread (a -> id, sizeof (a -> id), 1, in);   fread (a->id, sizeof(char), nr, in);
    fread (&a -> nr, sizeof (a -> nr), 1, in);
    a -> prod = (struct Produs *) malloc ((a -> nr) * sizeof (struct Produs));
    fread (&a -> prod, sizeof (a -> prod), a -> nr, in);
    fclose (in);
}
```

```
int cmpProduse (const void *a, const void *b)
{
    struct Produs *sa = (struct Produs *) a;
    struct Produs *sb = (struct Produs *) b;
    return strcmp (sa, sb);
}

float cautaPret (Magazin m, int (*cmp) (const void *, const void *), char *nume)
{
    struct Produs *v;
    v = (struct Produs *) malloc ( m.nr * sizeof ( struct Produs ));
    for (int i=0; i<m.nr; i++)
        v[i] = m.prod[i];
    Struct Produs *rez;
    rez = bsearch (nume, v, m.nr, sizeof (v), cmp);
    int pos = rez - v;
    return v[pos].pret;
}
```