LISTE SIMPLE

```
struct produs
       int* cod;
       char* denumire;
       float pret;
       float cantitate;
};
struct nodls
{
       produs* inf;
       nodls* next;
};
nodls* inserare(nodls* cap, produs* p)
{
       nodls* nou = (nodls*)malloc(sizeof(nodls));
       nou->inf = (produs*)malloc(sizeof(produs));
       nou->inf->cod = (int*)malloc(sizeof(int));
       *(nou->inf->cod) = *(p->cod);
       nou->inf->denumire = (char*)malloc((strlen(p->denumire) + 1) * sizeof(char));
       strcpy(nou->inf->denumire, p->denumire);
       nou->inf->pret = p->pret;
       nou->inf->cantitate = p->cantitate;
       nou->next = NULL;
       if (cap == NULL)
              cap = nou;
       else
       {
             nodls* temp = cap;
             while (temp->next != NULL)
                     temp = temp->next;
             temp->next = nou;
       return cap;
}
void traversare(nodls* cap)
       nodls* temp = cap;
      while (temp != NULL)
       {
              printf("\nCod=%d, Denumire=%s, Pret=%5.2f, Cantitate=%5.2f",
                     *(temp->inf->cod), temp->inf->denumire, temp->inf->pret, temp->inf-
>cantitate);
              temp = temp->next;
       }
}
void dezalocare(nodls* cap)
       nodls* temp = cap;
      while (temp != NULL)
```

```
nodls* temp2 = temp->next;
              free(temp->inf->denumire);
              free(temp->inf->cod);
              free(temp->inf);
              free(temp);
              temp = temp2;
       }
}
void main()
       int n;
       printf("Nr. produse=");
       scanf("%d", &n);
       nodls* cap = NULL;
       produs* p;
       char buffer[20];
       for (int i = 0; i < n; i++)</pre>
       {
              p = (produs*)malloc(sizeof(produs));
              p->cod = (int*)malloc(sizeof(int));
              printf("Cod=");
              scanf("%d", p->cod);
              printf("Denumire=");
              scanf("%s", buffer);
              p->denumire = (char*)malloc((strlen(buffer) + 1) * sizeof(char));
              strcpy(p->denumire, buffer);
              printf("Pret=");
              scanf("%f", &p->pret);
              printf("Cantitate=");
              scanf("%f", &p->cantitate);
              cap = inserare(cap, p);
              free(p->denumire);
              free(p->cod);
              free(p);
       traversare(cap);
       dezalocare(cap);
}
```