

good, bool, cool, incandescent, gabby, drunk, match, pumped,
crayon, undo, flap, memory, line, trashy, elite, kind, amusing.

b) Scrieti parcurgerile: InOrdine, PreOrdine si PostOrdine

////////////////////////////////////

```
graph TD; good --- bool; good --- incandescent; bool --- amusing; bool --- cool; cool --- gabby; gabby --- drunk; drunk --- crayon; drunk --- flap; flap --- elite; incandescent --- match; match --- line; match --- pumped; line --- kind; pumped --- memory; pumped --- undo; undo --- trashy
```

////////////////////////////////////

InOrdine: amusing, bool, cool, crayon, drunk, elite, flap, gabby, good, incandescent, kind, line, match, memory, pumped, trashy, undo

PreOrdine: good, bool, amusing, cool, gabby, drunk, crayon, flap, elite, incandescent, match, line, kind, pumped, memory, undo, trashy

////////////////////////////////////

c) Descrieti succesiunea de stergere a nodului cu cheia drunk

Pasul 1:

Se cauta succesorul InOrdine al nodului "drunk", acesta fiind "elite".

Pasul 2:

Se interschimba nodul "elite" cu nodul de sters "drunk".

Pasul 3:

Se sterge nodul.

//

9.2. Pentru un Arbore Binar de Cautare avand cheia un numar intreg

(a) Scrieti o secventa de cod care returneaza numarul elementelor (nodurilor) din arbore;

(b) Scrieti o secventa de cod care returneaza suma tuturor cheilor din arbore;

(c) Scrieti o secventa de cod care returneaza cheia cu valoarea maxima din arbore, sau -1 daca arborele este vid. Presupunem ca toate valorile sunt pozitive;

//

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

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

```
typedef struct node{
```

```
    int n;
```

```
    struct node *next;
```

```
}node;
```

```
node *list=NULL;
```

```
//Subpunctul a;
```

```
int ContorTotal(node **list) {
```

```
    int contor = 0;
```

```
    if (*list == NULL) {
```

```
        return contor;
```

```
    }
```

```
    node *tmp = *list;
```

```
    while (tmp->next != NULL) {
```

```
        contor++;
```

```
        tmp = tmp->next;
```

```
    }
```

```
    return contor;
```

```
}
```

```
//Subpunctul b;
```

```
int SumaTotala(node **list) {
```

```
    int suma = 0;
```

```
    if (*list == NULL) {
```

