

```

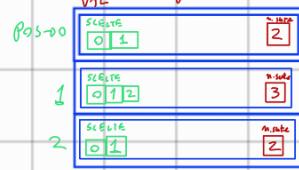
int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

princ_molt(...){
if(pos>=n){
for(i=0;i<n;i++)printf("%d ", sol[i]);
printf("\n");
return cnt+1;
}
for(i=0;i<val[pos].num_scelte;i++){
sol[pos]=val[pos].scelte[i];
princ_molt(pos+1,...);
}
return cnt;
}

input

$n=3 \quad pos=0 \quad cnt=0$



typedef struct _

int *scelte;
int n_scelte;

Livello;

1

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```



SOL



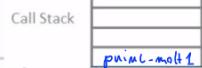
2

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$pos=0$
 $Cnt=0$
 $i=0$



SOL



A₀

3

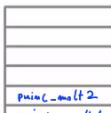
```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$pos=1$
 $Cnt=0$

Call Stack



SOL



A₀



4

```

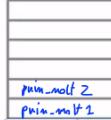
int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$pos=1$

$i=0$
 $Cnt=0$

Call Stack



SOL



A₀



5

```

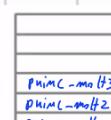
int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$pos=2$

$Cnt=0$

Call Stack



SOL



A₀



6

```

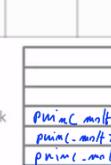
int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$pos=2$

$i=0$
 $Cnt=0$

Call Stack



SOL



A₀



A₀P₀S₀

```

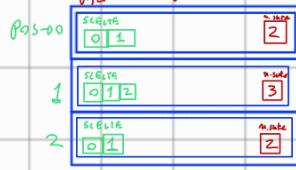
int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

princ_molt(...){
if(pos>=n){
for(i=0;i<n;i++)printf("%d ", sol[i]);
printf("\n");
return cnt+1;
}
for(i=0;i<val[pos].num_scelte;i++){
sol[pos]=val[pos].scelte[i];
cnt=princ_molt(pos+1,...);
}
return cnt;
}

input

$n=3 \quad pos=0 \quad cnt=0$



typedef struct {

int *scelte;
int n_scelte;

} Livello;

7

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$pos=3$
 $cnt=0$

Call Stack

princ_molt
princ_molt3
princ_molt2
princ_molt1

8

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$pos=3$
 $cnt=0$

Call Stack

princ_molt3
princ_molt2
princ_molt1

9

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

Call Stack

princ_molt3
princ_molt2
princ_molt1

10

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$pos=2$
 $cnt=1$
 $i=1$

Call Stack

princ_molt3
princ_molt2
princ_molt1



11

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$pos=3$
 $cnt=1$

Call Stack

princ_molt
princ_molt3
princ_molt2
princ_molt1

12

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

Call Stack

princ_molt3
princ_molt2
princ_molt1

```

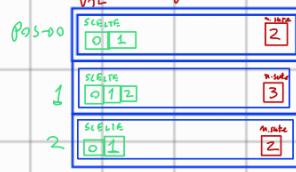
int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

princ_molt(...)
if($pos \geq n$)
 $\quad \text{for}(i=0; i < n; i++) \text{printf}(\%d, \text{sol}[i]);$
 $\quad \text{printf}(\n);$
 $\quad \text{return } cnt + 1;$
for($i=0; i < val[pos].num_scelte; i++$)
 $\quad \text{sol[pos]} = val[pos].scelte[i];$
 $\quad \text{cnt} = \text{princ_molt}(pos+1, val, sol, n, cnt);$
}
return $cnt;$

input

$n=3 \quad pos=0 \quad cnt=0$



typedef struct _

int *scelte;
int n_scelte;

Livello;

(13)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$Pos=2$
 $Cnt=2$



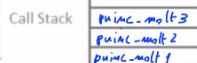
(14)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$i=2$
 $Pos=2$
 $Cnt=2$



(15)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt; → fino allo stack princ_molt 3
}

```



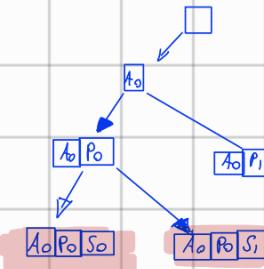
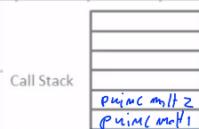
(16)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$Pos=1$
 $i=0$
 $Cnt=2$



(17)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$Pos=2$
 $i=0$
 $Cnt=2$



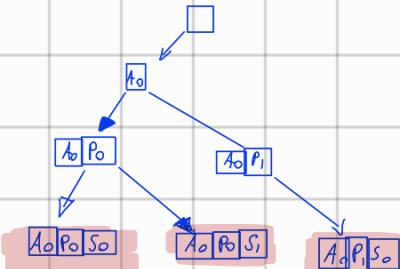
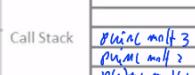
(18)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

$Pos=2$
 $i=0$
 $Cnt=2$



```

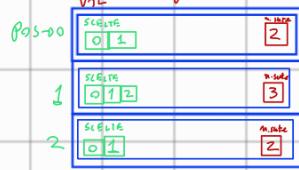
int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

princ_molt(...){
if(pos>=n){
for(i=0;i<n;i++)printf("%d ", sol[i]);
printf("\n");
return cnt+1;
}
for(;i=0;i<val[pos].num_scelte;i++){
sol[pos]=val[pos].scelte[i];
princ_molt(pos+1,...);
}
return cnt;
}

input

$n=3 \quad pos=0 \quad cnt=0$



typedef struct {

int *scelte;
int n_scelte;

} Livello;

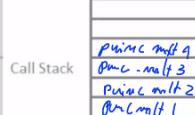
(19)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

Pos 3

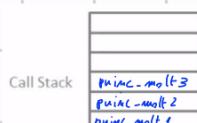


(20)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

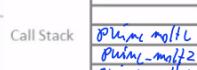


(21)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```



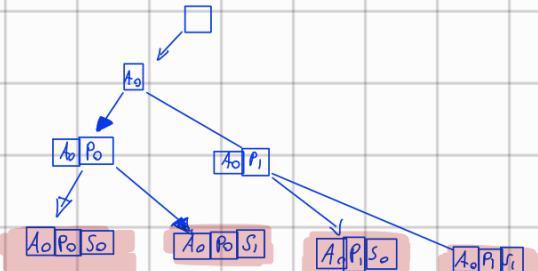
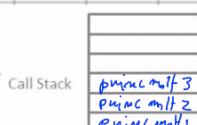
(22)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

Pos 2
i=1
cnt=3



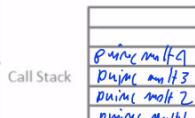
(23)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

Pos 3

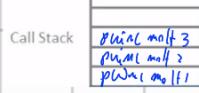


(24)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```



```

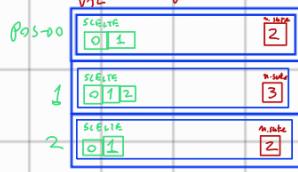
int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

princ_molt(...)
if (pos >= n) {
for (i = 0; i < n; i++) printf("%d ", sol[i]);
printf("\n");
return cnt+1;
}
for (i = 0; i < val[pos].num_scelte; i++) {
sol[pos] = val[pos].scelte[i];
princ_molt(pos+1, ...);
}
return cnt;
}

input

$n=3 \quad pos=0 \quad cnt=0$



typedef struct _

`int *scelte;`
`int n_scelte;`

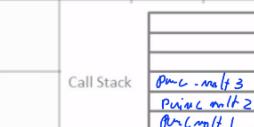
`Livello;`

25

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

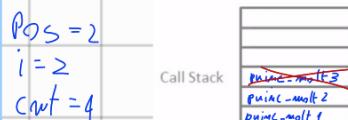


26

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
} → Cancella princ_molt 3

```

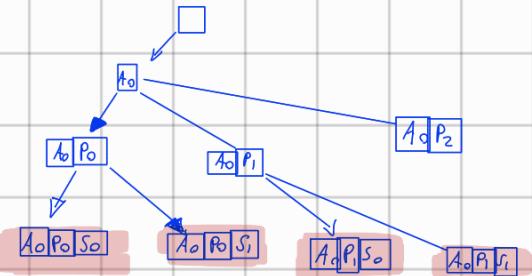
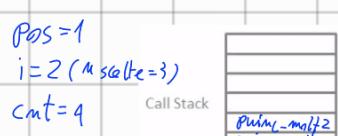


27

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

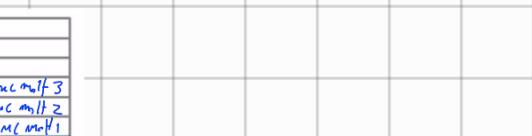


28

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

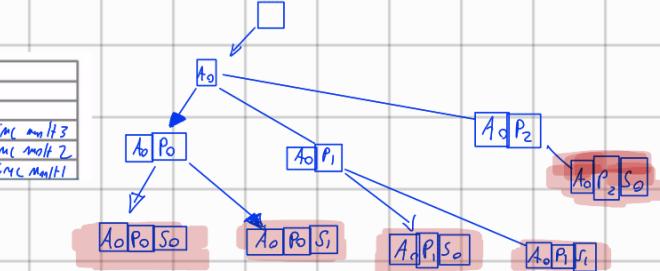
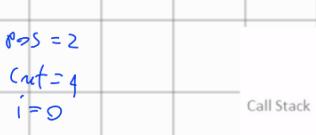


29

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```



30

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```



```

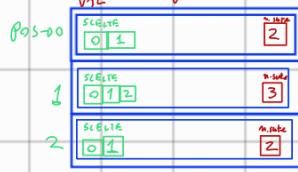
int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

princ_molt(...)
if (pos >= n) {
for (i = 0; i < n; i++) printf("%d ", sol[i]);
printf("\n");
return cnt + 1;
}
for (i = 0; i < val[pos].num_scelte; i++) {
sol[pos] = val[pos].scelte[i];
princ_molt(pos+1, ...);
}
return cnt;

input

$n = 3 \quad pos = 0 \quad cnt = 0$



typedef struct

int *scelte;
int n_scelte;

Livello;

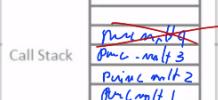
(31)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

**pos = 3
cnt = 5**

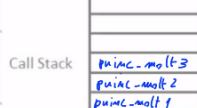


(32)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```



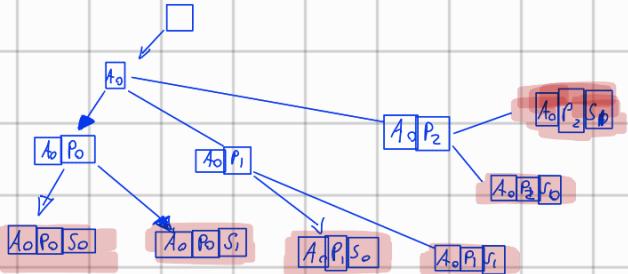
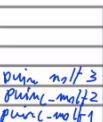
(33)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

**i = 1
cnt = 5
pos = 2**



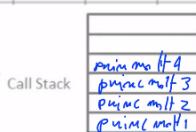
(34)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

**pos = 3
cnt = 5**



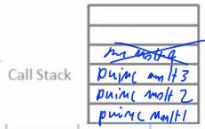
(35)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

**Cnt 6
Pos 3**



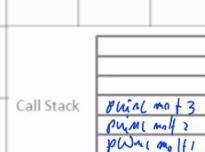
(36)

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

**pos = 2
cnt = 6**



```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

princ_molt(...)
 if($pos \geq n$)
 for($i = 0; i < n; i++$) $\text{printf}(\%d, \text{sol}[i])$
 $\text{printf}(\n)$
 return $cnt + 1$
 for($i = 0; i < \text{VAL}[pos].num_scelte; i++$)
 $\text{sol}[pos] = \text{val}[pos].scelte[i]$
 princ_molt($pos + 1, \dots$)
 return cnt ;

input



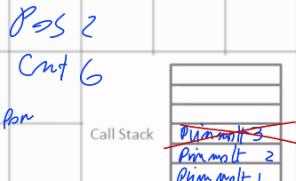
typedef struct
int *scelte;
int n_scelte;
Livello;

37

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;   cancello princ mlt 3
}

```



38
Vedi n. 26

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;   cancello princ mlt 2
}

```



39
Vedi n. 2

```

int princ_molt(int pos, Livello *val, int *sol, int n, int cnt) {
    int i;
    if (pos >= n) {
        for (i = 0; i < n; i++)
            printf("%d ", sol[i]);
        printf("\n");
        return cnt+1;
    }
    for (i = 0; i < val[pos].num_scelte; i++) {
        sol[pos] = val[pos].scelte[i];
        cnt = princ_molt(pos+1, val, sol, n, cnt);
    }
    return cnt;
}

```

