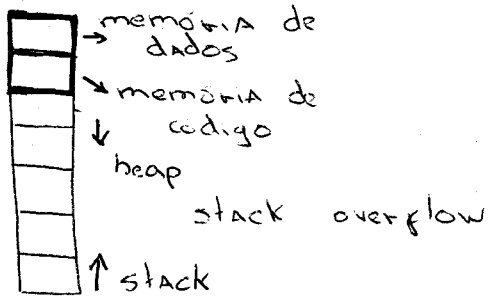


Listas ligadas:std lib:

void * malloc (int nbytes)

void free (void *)

llistas.h

```
# ifndef - LLISTAS
# define - LLISTAS
typedef struct slistint
{
    int valor;
    struct slistint * seg;
} ListNode; * List;
List conslist (List P, int elem);
void showlist (List P);
List procuralist (List P, int elem);
# endif
```

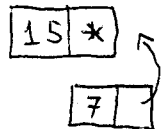
llistas.c

```
List conslist (List P, int elem)
{
    int aux;
    aux = (List) malloc (sizeof (ListNode));
    aux -> valor = elem;
    * aux -> seg = P;
    return aux;
}

int somatorio (List P)
{
    if (!P)
        return 0;
    else
        return P -> valor + somatorio (P -> seg);
}
```

Prog. C

```
# include "llistas.h"
int main ( )
{
    List P1 = NULL; P2 = NULL;
    P1 = conslist (h, 15);
    P2 = P1;
    h = conslist (conslist (conslist (P1, 7), 9), 19);
    showlist (h);
}
```



```
void showlist (list P)
{
    if (P)
    {
        printf ("%d", * P -> valor);
        showlist (P -> seg);
    }
}
```

