

P
34

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ri.h

```
#ifndef _RILISTAS
#define _RILISTAS
typedef struct slist
{
    int flag;
    union {
        struct {
            int s1;
            struct slist *s2;
            { p1;
            struct {
                { p2;
            } u;
        } f1;
    } f2;
} f3;
#define P1 2001
#define P2 2002
List consP1(int s1, List s2);
List consP2();
#endif
```

```
void rec_Z()
{
    List v1;
    v1 = rec_List();
    rec_Term(PUM);
    showList(v1);
    printf("Somatorio = %.d", sumList(v1));
}
```

listassem.h

```
#include "ri.h"
void showList(List l)*;
int sumList(List l);
```

listassem.c

```
#include "listassem.h"
void showList(List l)
{
    if(l){
        switch(l->flag)
        {
            case P1: printf("%d", l->u.p1.s1);
                        showList(l->u.p1.s2);
            case P2: break;
        }
    }
    int sumList(List l)
    {
        if(l)
        {
            if(l->flag == P2)
                return 0;
            else
                return (l->u.p1.s1 + sumList(l->u.p1.s2));
        }
    }
}
```

Z → List '\$'
List → '[' List]