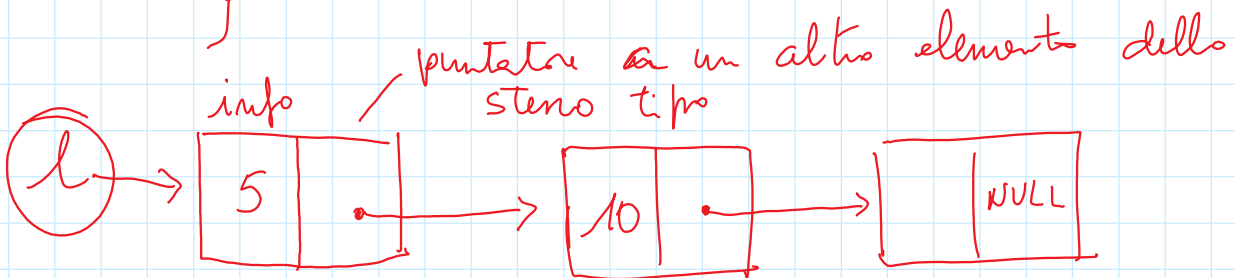


struct el

```
{ int info;  
  struct el * next;  
}
```

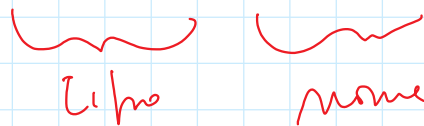
mercoledì 8 novembre 2017 11:14



struct el

Dare un nome (che si ricordi facilmente) a un tipo struct el

typedef



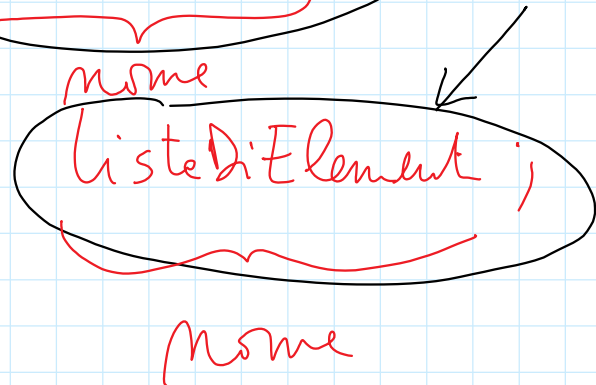
typedef

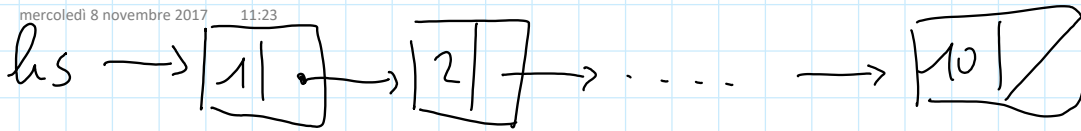
```
struct el  
{  
};  
tipo
```



typedef

```
ElementiDiListe *  
tipo
```





```
struct el { int info; struct el * next; }
```

```
typedef struct el ElementoDiLista;
```

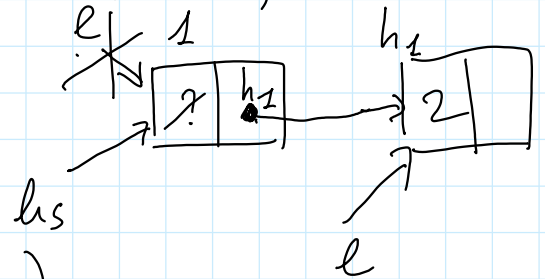
```
typedef ElementoDiLista * listaDiElementi;
```

```
main ()
```

```
{ listaDiElementi l = malloc (sizeof (ElementoDiLista));
```

```
listaDiElementi lis = l; int i = 2;
```

```
lis -> info = 1;
```



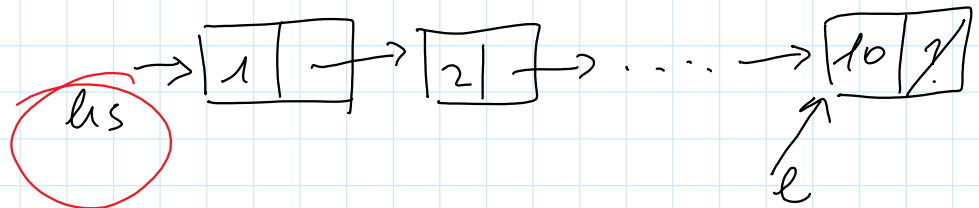
```
for (i = 2; i <= 10; i++)
```

```
{ l -> next = malloc (sizeof (ElementoDiLista));
```

```
l = l -> next;
```

```
l -> info = i;
```

```
}
```



```
l -> next = NULL;
```

void crealista (ListaDiElementi lis, int n)

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```

{ listaDiElementi l = malloc(---); int i;
  lis = l;
  lis->info = 1;
  for (i=2; i <= n; i++)
  { l->next = malloc(---);
    l = l->next;
    l->info = i;
  }
  l->next = NULL;
}

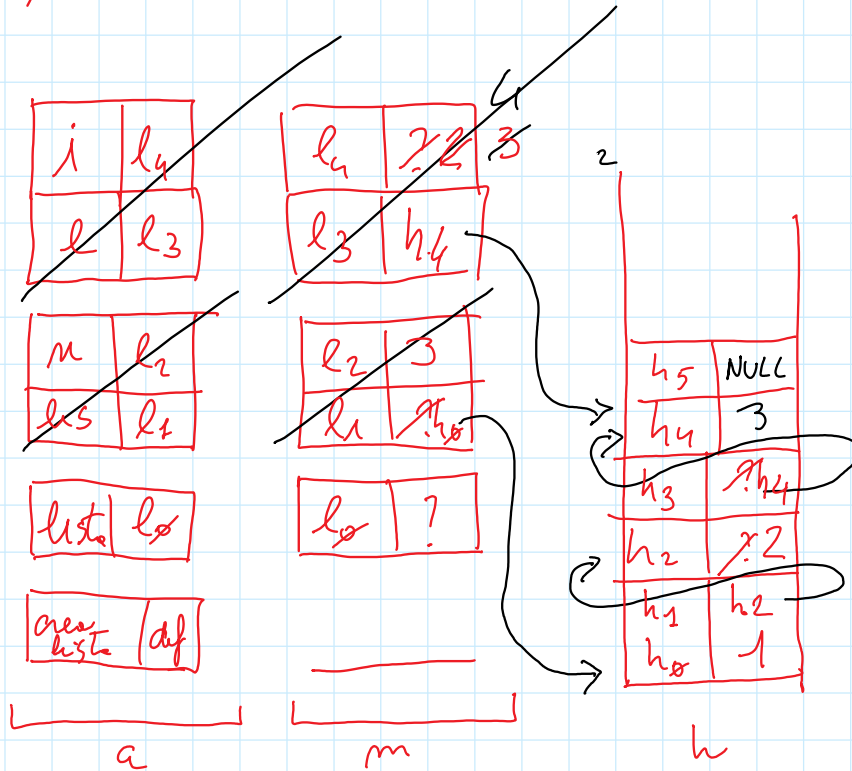
```

main()

```

{ listaDiElementi lista;
  crealista (lista, 3);
}

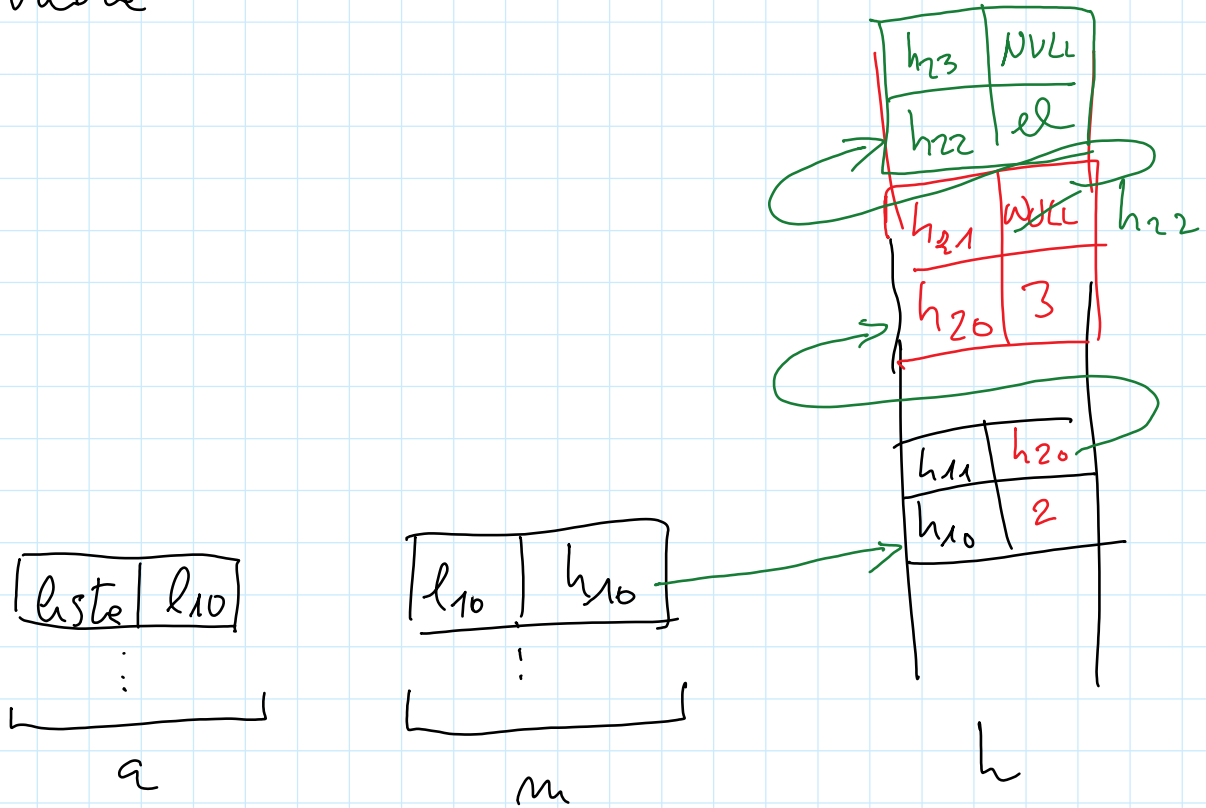
```



```
void crealista (ListeDiElementi * lis, int n)
{
  ListeDiElementi l = malloc(...); int i;
  *lis = l;
  l->info = 1;
  for (i = 2; i <= n; i++)
  {
    l->next = malloc(...);
    l = l->next;
    l->info = i;
  }
  l->next = NULL;
}
```

```
main()
{
  ListeDiElementi lista;
  crealista (& lista, 3);
}
```

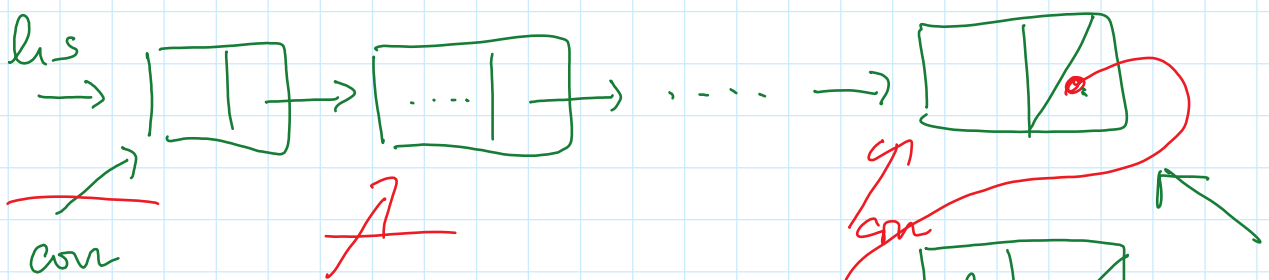
Scrivere una procedura che aggiunge un valore intero el in fondo a una lista non vuota



```

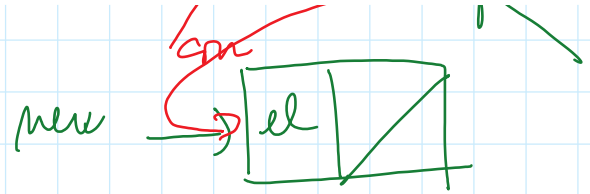
void add (ListeDiElementi lis, int el)
{
  ListeDiElementi cor = lis;
  ListeDiElementi new = malloc(...);
  new->info = el;
  new->next = NULL;
}

```



~~con~~
con

~~con~~
con



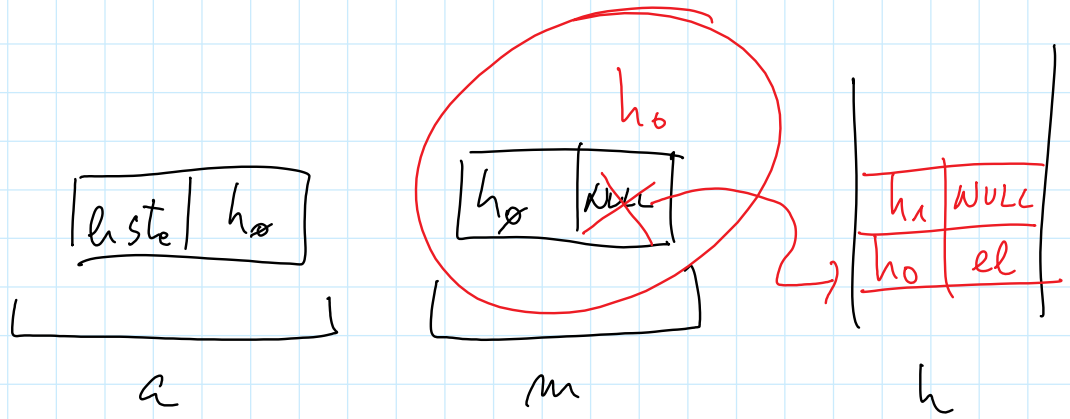
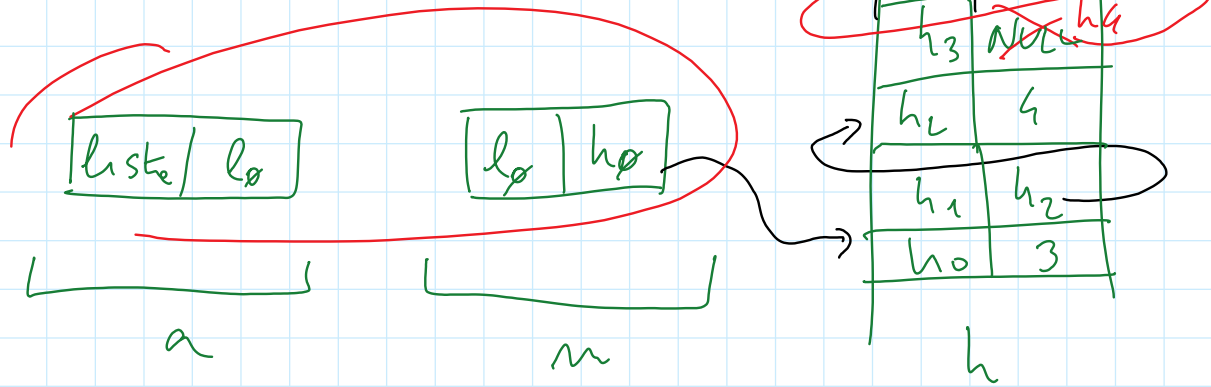
while (con → next != NULL)

con = con → next;

con → next = new;

}

Aggiungere un elemento, con valore el , in fondo a una lista (anche vuota)



```

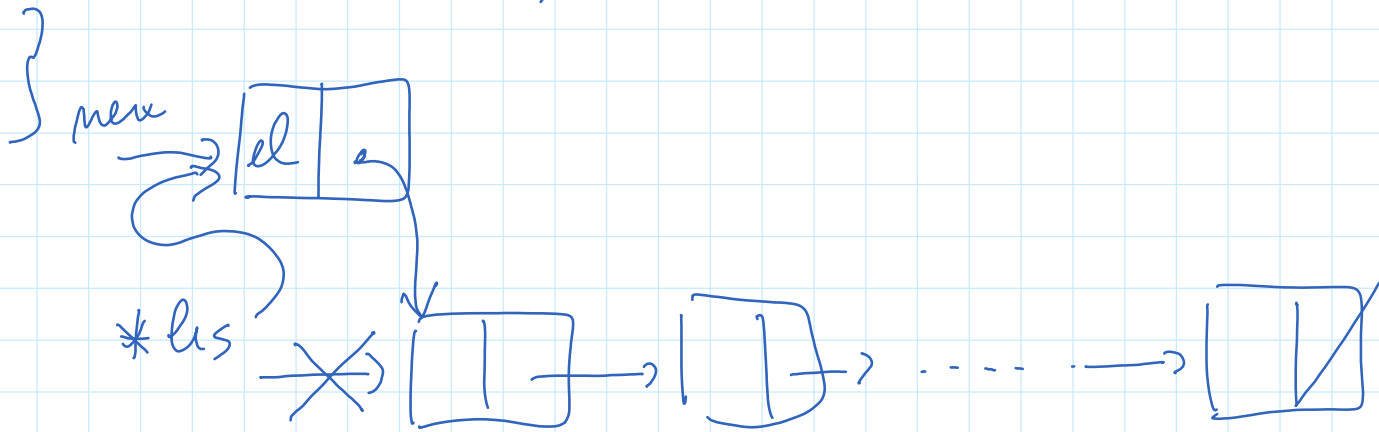
void add (ListeDiElementi * lis, int el)
{
    ListeDiElementi new = malloc(.....);
    new->info = el;
    new->next = NULL;
    if (*lis == NULL) *lis = new;
    else
    {
        ListeDiElementi cor = *lis;
        while (cor->next != NULL)
            cor = cor->next;
    }
}
    
```

}
} con → next = new;

Aggiungere un element el in testa alla lista

mercoledì 8 novembre 2017 12:32

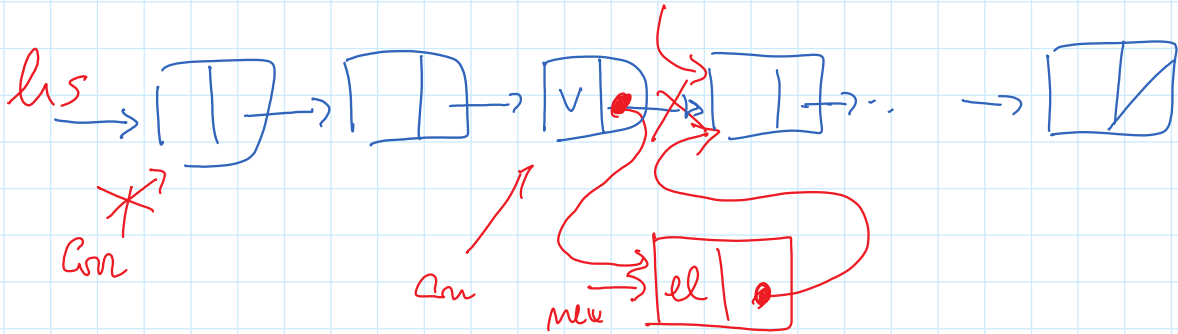
```
void add (ListadiElement * lis, int el)
{
  ListadiElement new = malloc(...);
  new -> info = el;
  new -> next = * lis;
  * lis = new;
}
```



mercoledì 8 novembre 2017 12:38

Aggiungere un elemento che contiene il valore el dopo la prima occorrenza di un elemento che contiene il valore v .

Se v non compare la lista rimane immutata.



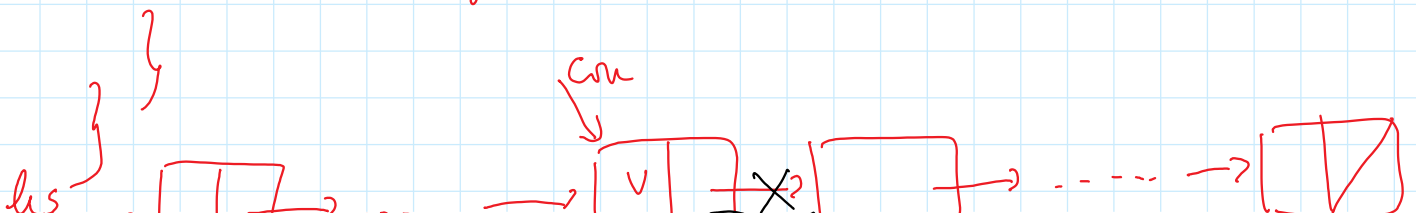
```
void add (ListeDiElementi lis, int el, int v)
{
  ListeDiElement con = lis;
  int trovato = 0;
  while (con != NULL && !trovato)
    if (con->info == v) trovato = 1;
    else con = con->next;

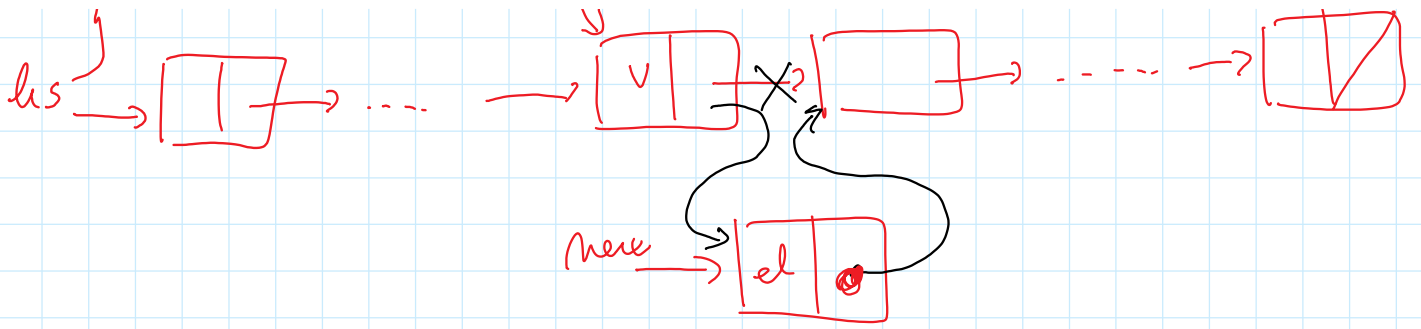
```

```

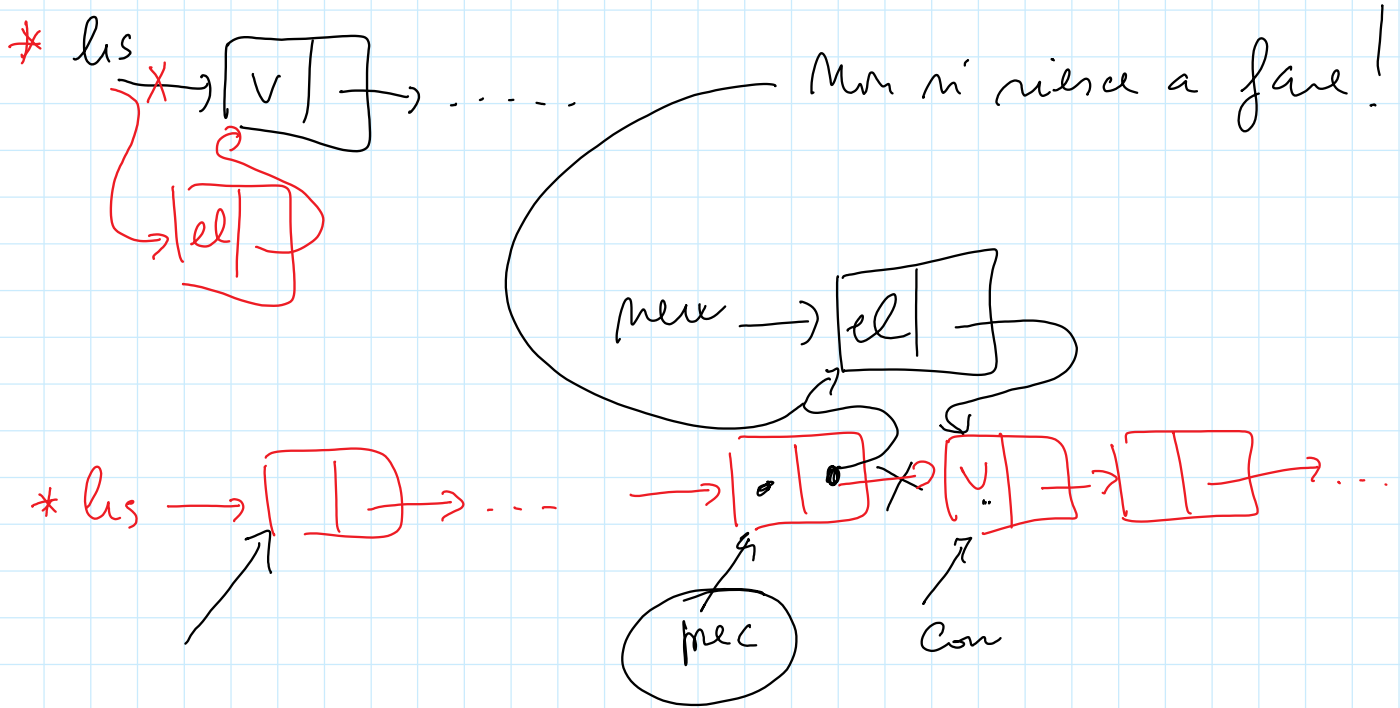
  if (trovato)
  {
    ListeDiElement new = malloc(...);
    new->next = con->next;
    con->next = new;
    new->info = el;
  }
}

```





mercoledì 9 novembre 2017 12:54
Aggiungere un elemento el , prima delle prime
occorrenze di v .



void add (ListElement * lis, int el, int v)

mercoledì 8 novembre 2017 12:58

{ int trovato = 0;

ListElement cor = *lis;

ListElement prec = NULL;

while (cor != NULL && ! trovato)

if (cor -> info == v) trovato = 1;

else { prec = cor;

cor = cor -> next;

}
if (trovato)

{ ListElement new = malloc(...);

new -> info = el;

if (prec == NULL)

{ new -> next = *lis;

*lis = new;

else { new -> next = cor;

prec -> next = new;

