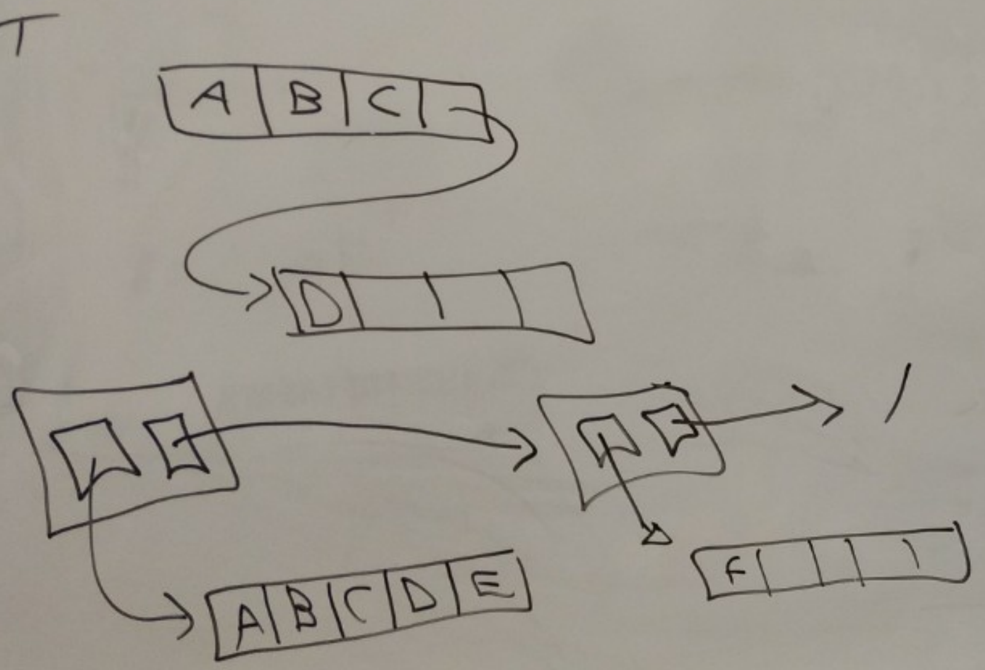
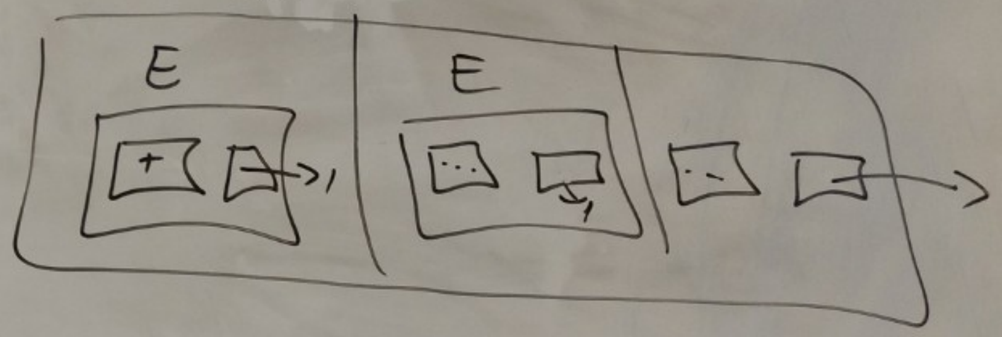
UNIVERSIDADE FEDERAL DO CEARÁ
CK0109 2019.2 T02 - ESTRUTURAS DE DADOS
AULA 15 - 13/09/2019

1. MOTIVAÇÃO:

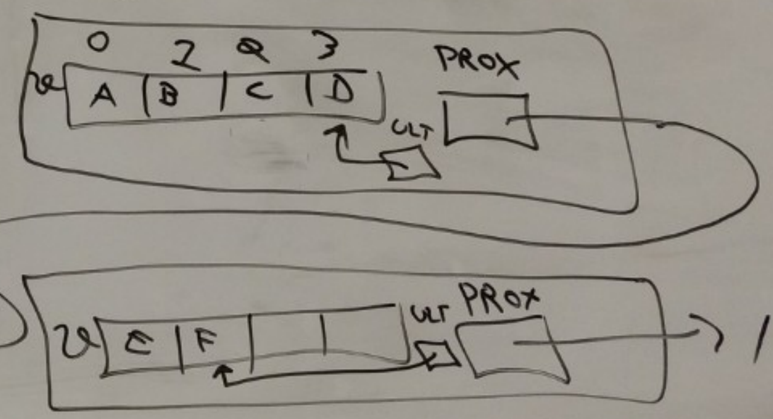
T



T
TIPO v[100];
...*



Nó



NO LIMITE

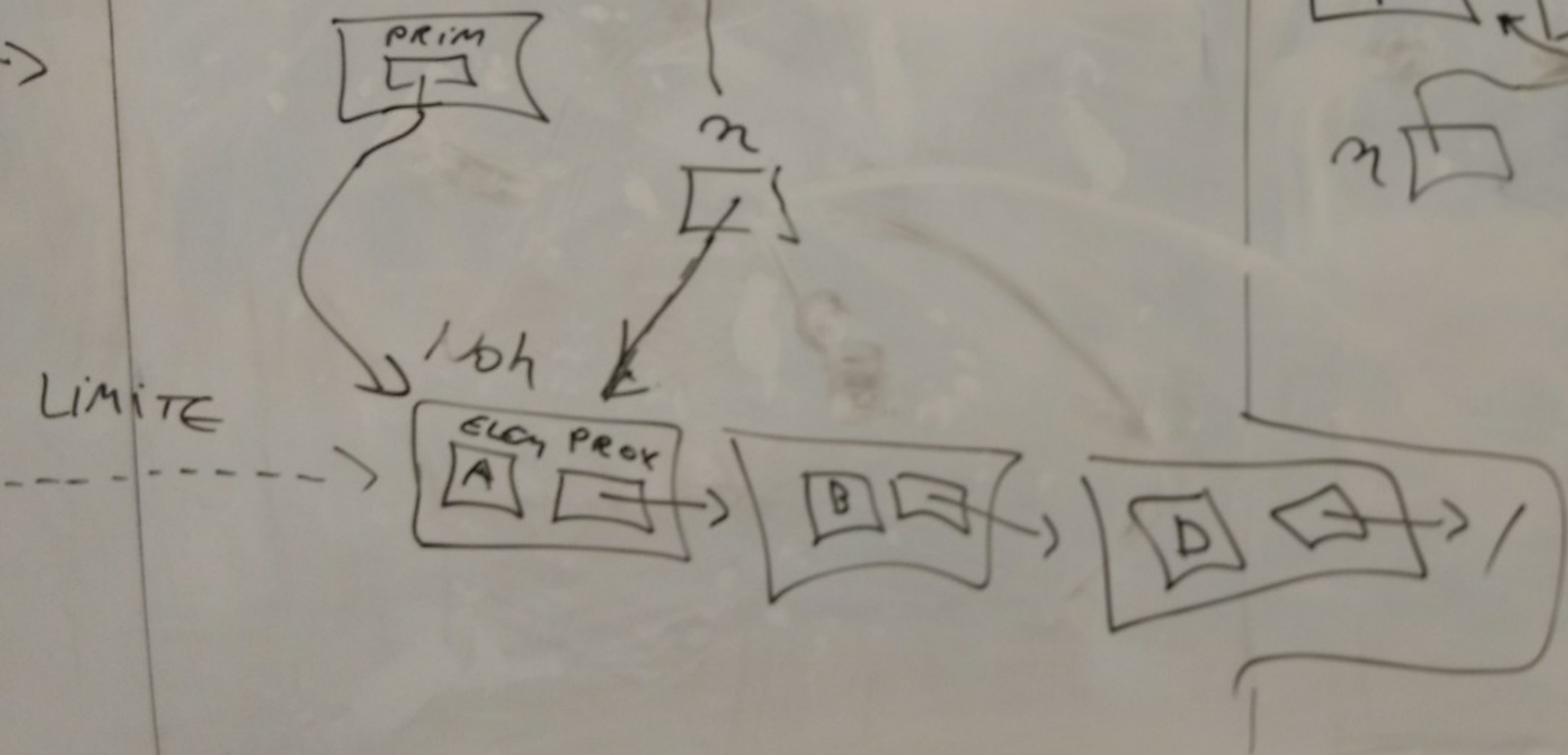
APONTAR PARA O PRIMEIRO NÓ

```
Noh *n= PRIM;
```

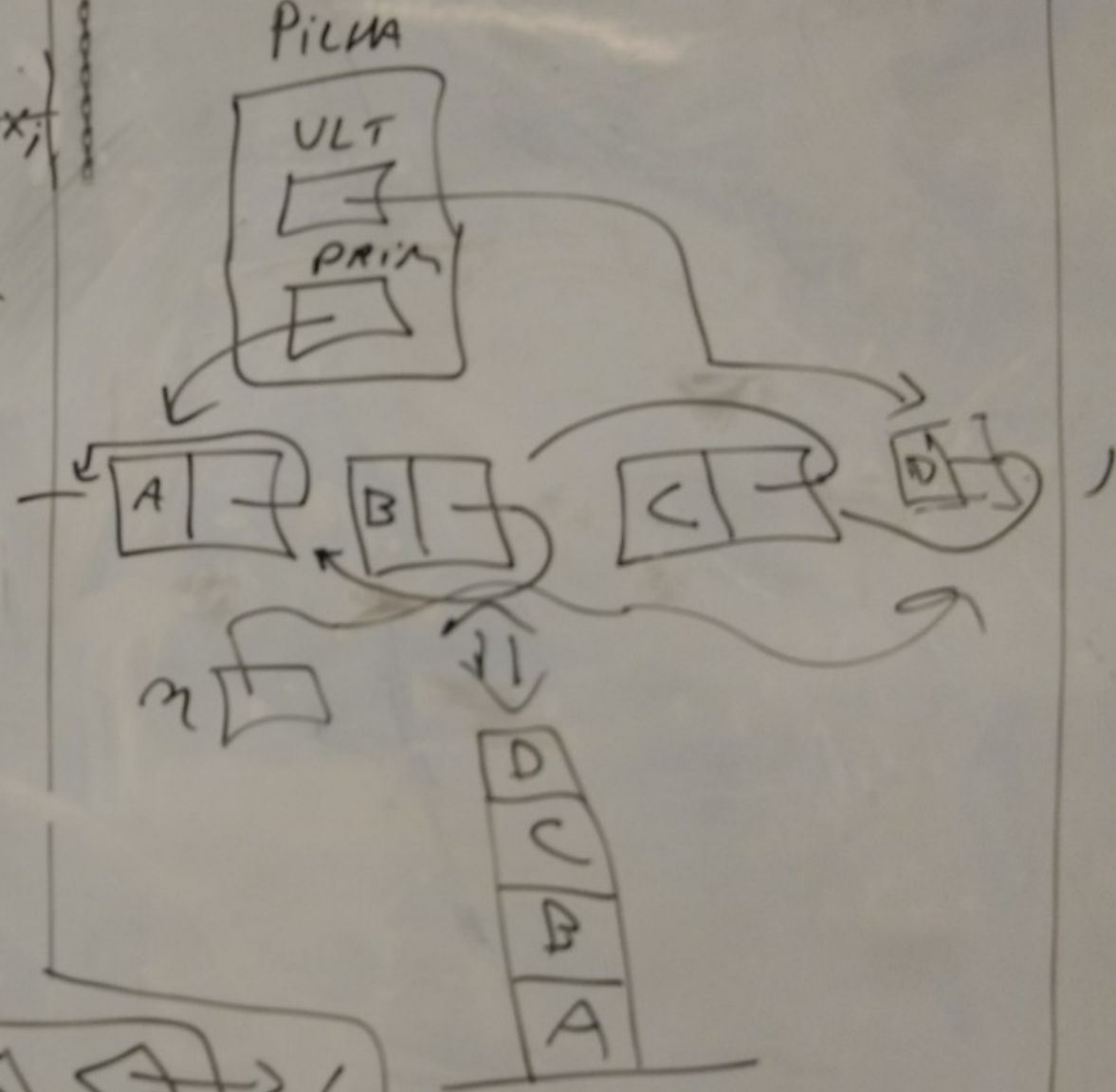
PASSAR AO PRÓXIMO NÓ

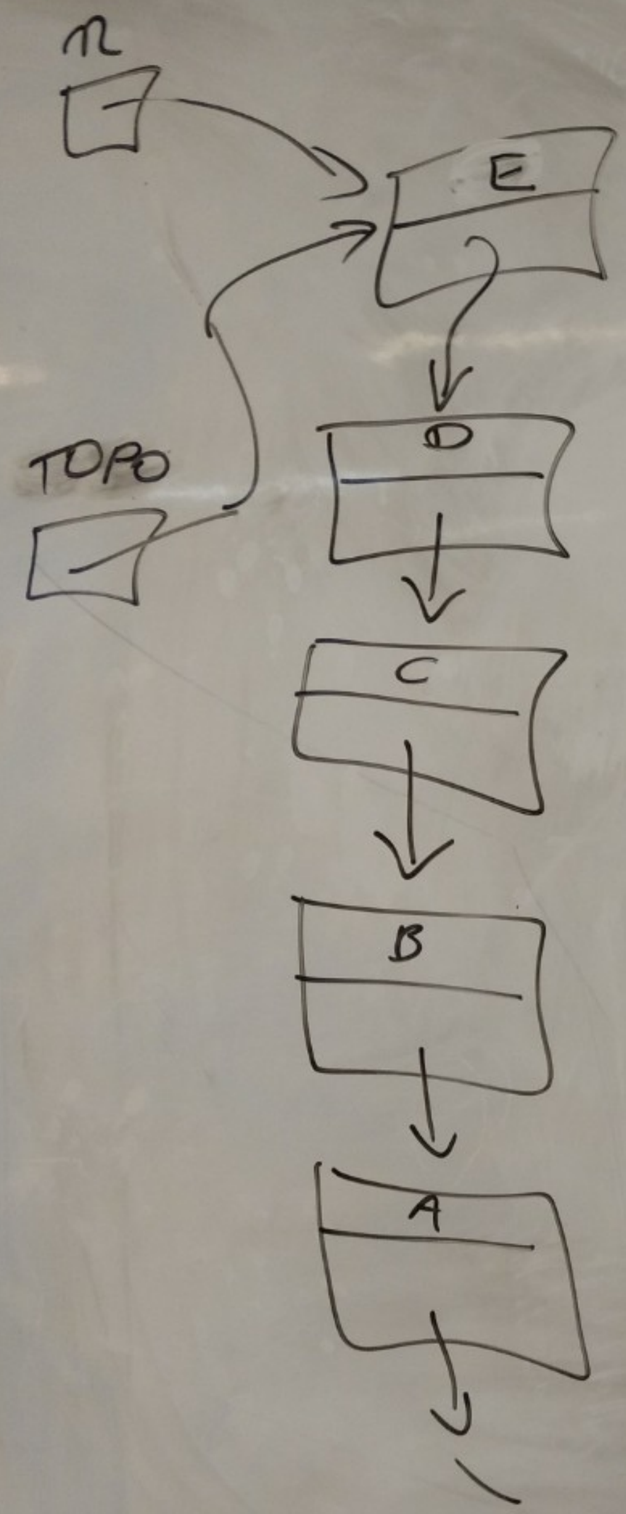
```
~~n=(*PRIM).PROX;~~

n=(*n).PROX
```

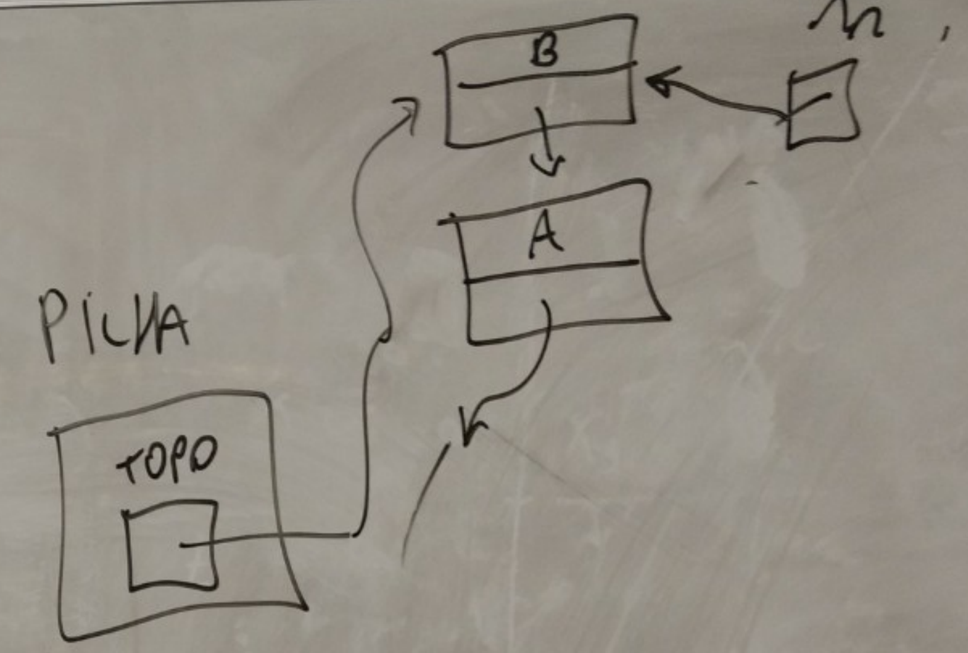
(C) CONJUNTO

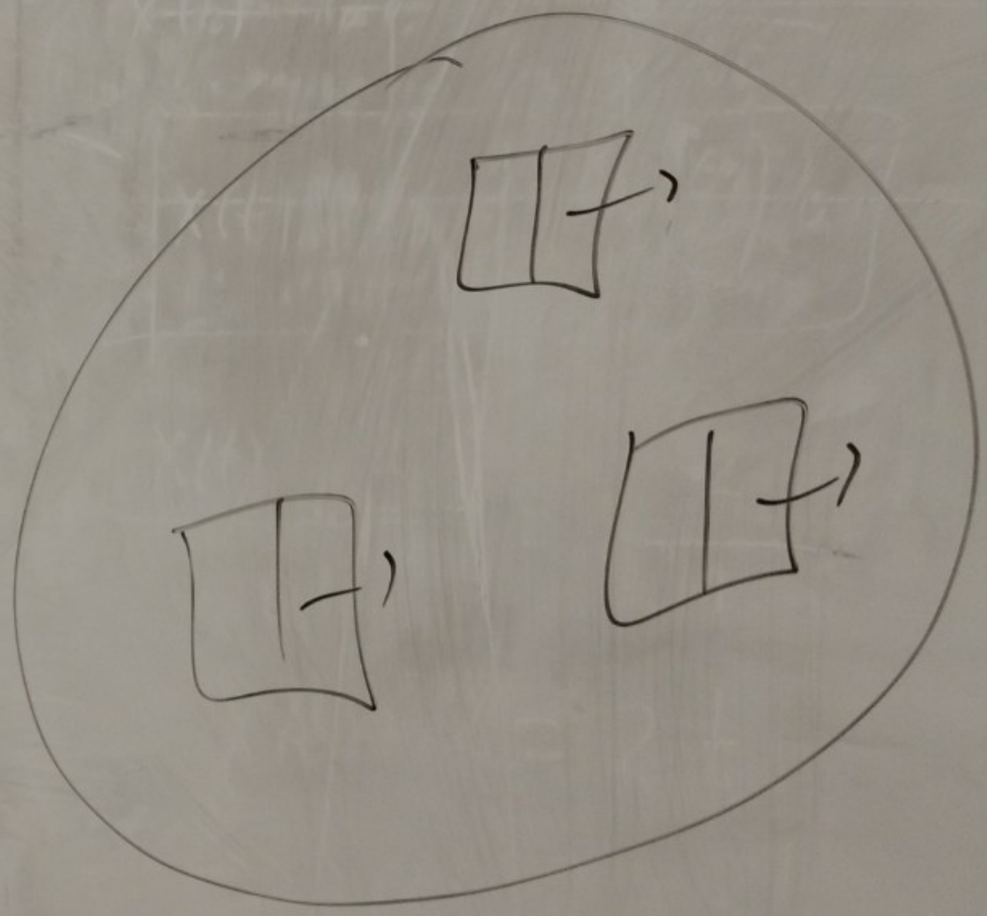


PILHA



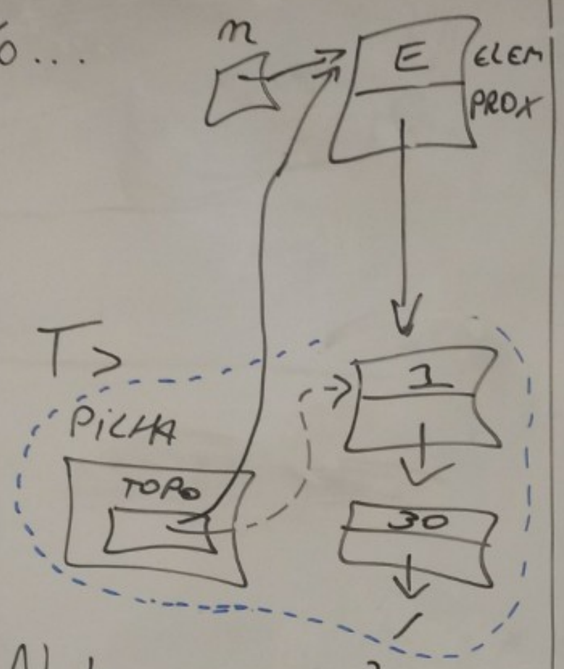

n
E
TOPO
D
C
B
A


B
n
A
PILHA
TOPO



2. Uma implementação ("Pilha.hpp"):

```
// Guardas de inclusão...
#include <new>
using std::nothrow;

template <typename T>
struct Pilha
  {
  struct Noh
    {T elem; Noh *prox; };
  Noh *topo;
  void iniciaizar ( ) { topo = nullptr;}
  bool vazia ( ) { return (topo == nullptr);}
  T consultar_topo ( )
     { return (*topo).elem;}
       //          topo->elem
```




```
// Pilha
bool empilhar (T e)
  {
    Noh *n = new(nothrow) Noh;
    if (n==nullptr) return true;
    n->prox = topo; n->elem = e;
    topo = n; return false;
  }
```