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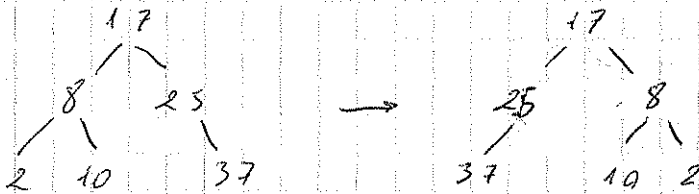
m<sup>o</sup> 59776

LEI-T-(55)

27/05/2010

Mirror:

ArvBin mirror(ArvBin a)



ArvBin mirror(ArvBin a)

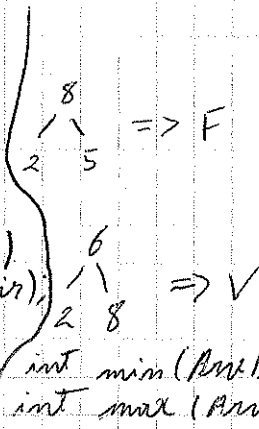
```
ArvBin aux;
if (!a) return a;
else {
  aux = mirror(a->dir);
  a->dir = mirror(a->esq);
  a->esq = aux;
  return a;
}
```

int same(ArvBin a, ArvBin b)

```
if (!a && !b) return 1;
else if (!a || !b) return 0;
else return (a->valor == b->valor) && same(a->esq, b->esq) && same(a->dir, b->dir);
```

int isBST(ArvBin a)

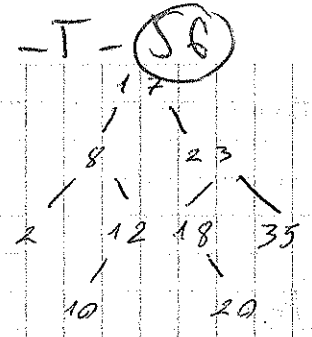
```
if (!a) return 1;
else return ((a->dir || (a->valor < min(a->dir))) && (!a->esq || (a->valor > max(a->esq))) && isBST(a->esq) && isBST(a->dir));
```



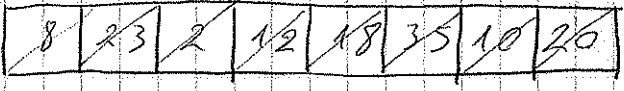
```
int min(ArvBin a);
int max(ArvBin a);
```

```

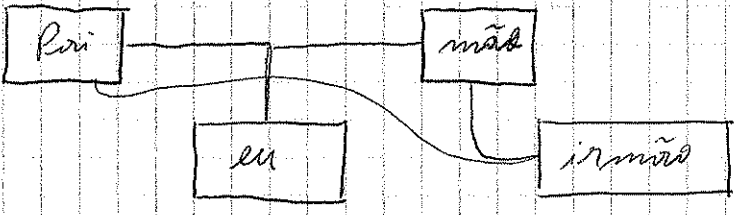
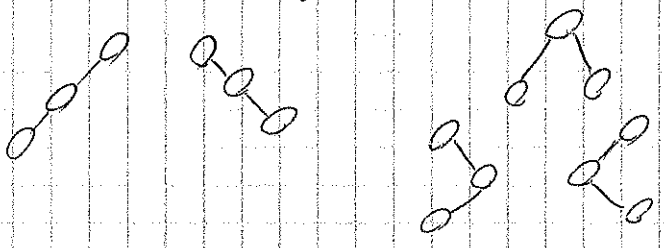
int hasPathSum (Arvore a, int Sum)
{
    if (!a || (Sum < 0)) return 0;
    else if (a == 0)
        return Sum == a -> valor;
    else
        return
            hasPathSum (a -> esq, Sum - a -> valor)
            || hasPathSum (a -> dir, Sum - a -> valor);
}
    
```



Queue  
17-8-23-2-12-18-35-10-20



count trees (3)



```

typedef struct Pessoa
{
    char nome[50];
    char * data_nasc;
    char * lei;
} Pessoa;
    
```

```

Pessoa * compPessoa (char * n, ...)
{
    Pessoa aux;
    aux.nome = strdup(n);
    return aux;
}
    
```