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Alunos

alunos.h

```

...
typedef struct SALuno
{
    float notas [10];
    char numero [8];
    char * nome;
    char curso [40];
} Aluno;

typedef struct STurma
    Aluno t[11*ALUNO];
    int nAlunos;
} turma
    
```

aluno.c

```

Aluno readAluno ()
{
    int i = 0;
    char nomeaux [100];
    Aluno aux;
    printf ...
    fgets (aux.numero, t, stdin);
    printf ...
    fgets (nomeaux, 99, stdin);
    aux.nome = strdup (nomeaux);
    ...
    for (i = 0, i < 10, i++)
    {
        printf ...
        scanf ("%f", &(aux.notas[i]));
    }
    return aux;
}
    
```

Inteiro

```

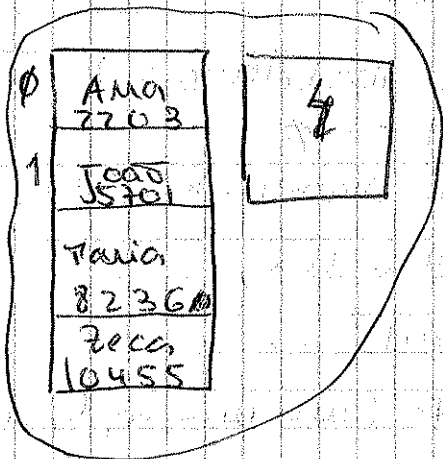
('+' | '-' )? [0-9]+
void listaAluno (Aluno a)
{
    printf ("%6s %50s %30s", a.numero, a.nome,
        a.curso);
    for (i = 0; i < 10; i++)
        printf ("%2.1f", a.notas [i]);
    printf ("\n");
}
    
```

```
void listaTurma (Turma p)
```

```

{
  int i;
  for (i = 0, i < p. alunos; i++)
    listaAluno (p.t[i]);
}

```



Turmas

```
Turma insAlunoTurma (Aluno a, Turma t)
```

```

{
  t.t[t.alunos] = a;
  t.alunos++;
  return t;
}

```

pi.c

#include "aluno.h"

int main()

```

{
  Aluno a1, a2, a3 = { "4238", "Jose", "LESI", 1044 };

```

Turma t1, t2;

t1 = insTurma (t1);

t1 = insAlunoTurma (a3, t1);

t1 = insAlunoTurma (readAluno(), t1);

a1 = readAluno();

a2 = readAluno();

t1 = insAlunoTurma (a1, insAlunoTurma (a2, t1));

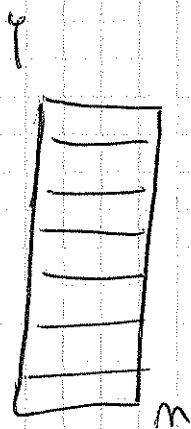
...
}

```

int procura Aluno Turma (Turma t, char *m)
{
    int encontrado = 0, i = 0;
    while ( ! encontrado && (i < t.valores) )
    {
        if (strcmp (m, t.t[i].numero) == 0)
            encontrado = 1;
        else
            i++;
    }
}

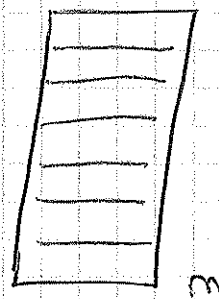
```

return encontrado ? i : -1;



$\Theta \frac{m}{2}$

ordenado



$\log_2 m$

- m = 1024 — 10
- 2048 — 11
- 12
- 1024 x 1024 — 20

ordem física

ordem lógica (por nome)

0	Joad	1
1	Maxim	4
2	Ana	3
3	Christine	0
4	Zeca	1

int

ordem nome
[2] int

Handwritten notes on graph paper, including the word "SOLUTION" and various mathematical expressions and diagrams.

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SOLUTION

$$x^2 + 2x + 1 = (x+1)^2$$

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