**AS – 2 BIMESTRE**

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**1)**

#include <stdio.h>

#include <stdlib.h>

#include <time.h>

int main(){

int n, vet[100], i;

printf("Informe a quantidade números desejados\n");

scanf("%i", &n);

FILE \* file;

file = fopen("randomico.txt", "w");

srand(time(NULL));

fprintf(file,"Total de Numeros: %i\n", n);

for(i=0; i < n; i++){

vet[i] = 1+rand()%100;

if(i < n-1){

fprintf(file,"%i, ", vet[i]);

}else{

fprintf(file,"%i ", vet[i]);

}

}

printf("\n");

fclose(file);

system("pause");

}

**2)**

#include <stdio.h>

#include <stdlib.h>

int main(){

int i, media=0, vet[12];

FILE \*file;

file = fopen("idade.txt", "r");

for(i=0;i<12;i++){

vet[i]=0;

fscanf(file,"%i", &vet[i]);

media = media + vet[i];

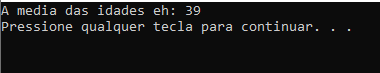
}

printf("A media das idades eh: %i\n", media / 12);

fclose(file);

system("pause");

}



**3)**

#include <stdio.h>

#include <stdlib.h>

int main(){

int i;

struct notas{

char nome[30];

int n1;

int n2;

float media;

}aluno[3];

for(i=0;i<3;i++){

printf("Informe o nome do aluno:\n");

fflush(stdin);

gets(aluno[i].nome);

fflush(stdin);

printf("Informe a primeira nota:\n");

scanf("%i", &aluno[i].n1);

printf("Informe a segunda nota:\n");

scanf("%i", &aluno[i].n2);

aluno[i].media = (aluno[i].n1 + aluno[i].n2) / 2;

}

FILE \*file;

file = fopen("binario.bin", "wb");

for(i=0;i<3;i++){

fwrite(aluno[i].nome, sizeof(char),30,file);

fwrite(aluno[i].n1, sizeof(int),1,file);

fwrite(aluno[i].n2, sizeof(int),1,file);

fwrite(&aluno[i].media, sizeof(float),1,file);

}

fclose(file);

system("pause");

}

**4)**

#include <stdio.h>

#include <stdlib.h>

int main(){

int i, mediaT;

struct notas{

char nome[30];

int n1;

int n2;

float media;

}aluno[3];

FILE \*file;

file = fopen("binario.bin", "rb");

for(i=0;i<3;i++){

fread(aluno[i].nome, sizeof(aluno[i].nome),30,file);

fread(aluno[i].n1, sizeof(aluno[i].n1),1,file);

fread(aluno[i].n2, sizeof(aluno[i].n2),1,file);

fread(&aluno[i].media, sizeof(aluno[i].media),1,file);

mediaT = mediaT + aluno[i].media;

}

printf("Media da turma: %f\n", mediaT / 3);

printf("\n");

printf("Alunos Aprovados:\n");

for(i=0;i<3;i++){

if(aluno[i].media >= 7){

printf("%s\n", aluno[i].nome);

}

}

fclose(file);

printf("\n");

system("pause");

}