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");
}
```

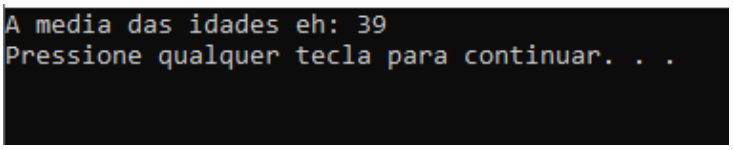
2)

```
#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");
}
```