```c
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>

int main(){
setlocale(LC_ALL,"Portuguese");
int num,dg4,dg3,dg2,dg1,a,b,c,inv,somainv,dig;

printf("DIGITE UM NÚMERO DE 3 DÍGITOS: ");
scanf("%i",&num); //num = 123
dg3 = num%10; //3
a = num/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg3*100) + (dg2*10) + (dg1*1);
somainv = inv + num;

if(somainv>999){
                        //somainv = 1234
dg4 = somainv%10; //4
a = somainv/10; //123
dg3 = a%10; //3
b = a/10; // 12
dg2 = b%10; // 2
c = b/10; //1,2
dg1 = c; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3) + (dg4*4);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i",dig);

}else{                  //somainv = 123
dg3 = somainv%10; //3
a = somainv/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i\n\n",dig);
system("PAUSE");
}
return 0;

}
```

```c
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>

int main(){
setlocale(LC_ALL,"Portuguese");
int num,dg4,dg3,dg2,dg1,a,b,c,inv,somainv,dig;

printf("DIGITE UM NÚMERO DE 3 DÍGITOS: ");
scanf("%i",&num); //num = 123
dg3 = num%10; //3
a = num/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg3*100) + (dg2*10) + (dg1*1);
somainv = inv + num;

if(somainv>999){
                        //somainv = 1234
dg4 = somainv%10; //4
a = somainv/10; //123
dg3 = a%10; //3
b = a/10; // 12
dg2 = b%10; // 2
c = b/10; //1,2
dg1 = c; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3) + (dg4*4);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i",dig);

}else{                  //somainv = 123
dg3 = somainv%10; //3
a = somainv/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i\n\n",dig);
system("PAUSE");
}
return 0;

}
```

```c
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>

int main(){
setlocale(LC_ALL,"Portuguese");
int num,dg4,dg3,dg2,dg1,a,b,c,inv,somainv,dig;

printf("DIGITE UM NÚMERO DE 3 DÍGITOS: ");
scanf("%i",&num); //num = 123
dg3 = num%10; //3
a = num/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg3*100) + (dg2*10) + (dg1*1);
somainv = inv + num;

if(somainv>999){
                        //somainv = 1234
dg4 = somainv%10; //4
a = somainv/10; //123
dg3 = a%10; //3
b = a/10; // 12
dg2 = b%10; // 2
c = b/10; //1,2
dg1 = c; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3) + (dg4*4);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i",dig);

}else{                  //somainv = 123
dg3 = somainv%10; //3
a = somainv/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i\n\n",dig);
system("PAUSE");
}
return 0;

}
```

```c
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>

int main(){
setlocale(LC_ALL,"Portuguese");
int num,dg4,dg3,dg2,dg1,a,b,c,inv,somainv,dig;

printf("DIGITE UM NÚMERO DE 3 DÍGITOS: ");
scanf("%i",&num); //num = 123
dg3 = num%10; //3
a = num/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg3*100) + (dg2*10) + (dg1*1);
somainv = inv + num;

if(somainv>999){
                        //somainv = 1234
dg4 = somainv%10; //4
a = somainv/10; //123
dg3 = a%10; //3
b = a/10; // 12
dg2 = b%10; // 2
c = b/10; //1,2
dg1 = c; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3) + (dg4*4);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i",dig);

}else{                  //somainv = 123
dg3 = somainv%10; //3
a = somainv/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i\n\n",dig);
system("PAUSE");
}
return 0;

}
```

```c
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>

int main(){
setlocale(LC_ALL,"Portuguese");
int num,dg4,dg3,dg2,dg1,a,b,c,inv,somainv,dig;

printf("DIGITE UM NÚMERO DE 3 DÍGITOS: ");
scanf("%i",&num); //num = 123
dg3 = num%10; //3
a = num/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg3*100) + (dg2*10) + (dg1*1);
somainv = inv + num;

if(somainv>999){
                      //somainv = 1234
dg4 = somainv%10; //4
a = somainv/10; //123
dg3 = a%10; //3
b = a/10; // 12
dg2 = b%10; // 2
c = b/10; //1,2
dg1 = c; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3) + (dg4*4);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i",dig);

}else{                 //somainv = 123
dg3 = somainv%10; //3
a = somainv/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i\n\n",dig);
system("PAUSE");
}
return 0;

}
```

```c
1   #include <stdio.h>
2   #include <stdlib.h>
3   #include <locale.h>
4
5   int main(){
6   setlocale(LC_ALL,"Portuguese");
7   int num,dg4,dg3,dg2,dg1,a,b,c,inv,somainv,dig;
8
9   printf("DIGITE UM NÚMERO DE 3 DÍGITOS: ");
10  scanf("%i",&num); //num = 123
11  dg3 = num%10; //3
12  a = num/10; //12
13  dg2 = a%10; //2
14  b = a/10; // 1,2
15  dg1 = b; // 1
16  inv= (dg3*100) + (dg2*10) + (dg1*1);
17  somainv = inv + num;
18
19  if(somainv>999){
20                          //somainv = 1234
21  dg4 = somainv%10; //4
22  a = somainv/10; //123
23  dg3 = a%10; //3
24  b = a/10; // 12
25  dg2 = b%10; // 2
26  c = b/10; //1,2
27  dg1 = c; // 1
28  inv= (dg1*1) + (dg2*2) + (dg3*3) + (dg4*4);
29  dig = inv%10;
30  printf("O DÍGITO VERIFICADOR É: %i",dig);
31
32  }else{                  //somainv = 123
33  dg3 = somainv%10; //3
34  a = somainv/10; //12
35  dg2 = a%10; //2
36  b = a/10; // 1,2
37  dg1 = b; // 1
38  inv= (dg1*1) + (dg2*2) + (dg3*3);
39  dig = inv%10;
40  printf("O DÍGITO VERIFICADOR É: %i\n\n",dig);
41  system("PAUSE");
42  }
43  return 0;
44
45  }
```

```c
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>

int main(){
setlocale(LC_ALL,"Portuguese");
int num,dg4,dg3,dg2,dg1,a,b,c,inv,somainv,dig;

printf("DIGITE UM NÚMERO DE 3 DÍGITOS: ");
scanf("%i",&num); //num = 123
dg3 = num%10; //3
a = num/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg3*100) + (dg2*10) + (dg1*1);
somainv = inv + num;

if(somainv>999){
                    //somainv = 1234
dg4 = somainv%10; //4
a = somainv/10; //123
dg3 = a%10; //3
b = a/10; // 12
dg2 = b%10; // 2
c = b/10; //1,2
dg1 = c; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3) + (dg4*4);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i",dig);

}else{                //somainv = 123
dg3 = somainv%10; //3
a = somainv/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i\n\n",dig);
system("PAUSE");
}
return 0;

}
```

```c
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>

int main(){
setlocale(LC_ALL,"Portuguese");
int num,dg4,dg3,dg2,dg1,a,b,c,inv,somainv,dig;

printf("DIGITE UM NÚMERO DE 3 DÍGITOS: ");
scanf("%i",&num); //num = 123
dg3 = num%10; //3
a = num/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg3*100) + (dg2*10) + (dg1*1);
somainv = inv + num;

if(somainv>999){
                        //somainv = 1234
dg4 = somainv%10; //4
a = somainv/10; //123
dg3 = a%10; //3
b = a/10; // 12
dg2 = b%10; // 2
c = b/10; //1,2
dg1 = c; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3) + (dg4*4);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i",dig);

}else{                  //somainv = 123
dg3 = somainv%10; //3
a = somainv/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i\n\n",dig);
system("PAUSE");
}
return 0;

}
```

```c
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>

int main(){
setlocale(LC_ALL,"Portuguese");
int num,dg4,dg3,dg2,dg1,a,b,c,inv,somainv,dig;

printf("DIGITE UM NÚMERO DE 3 DÍGITOS: ");
scanf("%i",&num); //num = 123
dg3 = num%10; //3
a = num/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg3*100) + (dg2*10) + (dg1*1);
somainv = inv + num;

if(somainv>999){
                        //somainv = 1234
dg4 = somainv%10; //4
a = somainv/10; //123
dg3 = a%10; //3
b = a/10; // 12
dg2 = b%10; // 2
c = b/10; //1,2
dg1 = c; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3) + (dg4*4);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i",dig);

}else{                  //somainv = 123
dg3 = somainv%10; //3
a = somainv/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i\n\n",dig);
system("PAUSE");
}
return 0;

}
```

```c
#include <stdio.h>
#include <stdlib.h>
#include <locale.h>

int main(){
setlocale(LC_ALL,"Portuguese");
int num,dg4,dg3,dg2,dg1,a,b,c,inv,somainv,dig;

printf("DIGITE UM NÚMERO DE 3 DÍGITOS: ");
scanf("%i",&num); //num = 123
dg3 = num%10; //3
a = num/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg3*100) + (dg2*10) + (dg1*1);
somainv = inv + num;

if(somainv>999){
                    //somainv = 1234
dg4 = somainv%10; //4
a = somainv/10; //123
dg3 = a%10; //3
b = a/10; // 12
dg2 = b%10; // 2
c = b/10; //1,2
dg1 = c; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3) + (dg4*4);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i",dig);

}else{                //somainv = 123
dg3 = somainv%10; //3
a = somainv/10; //12
dg2 = a%10; //2
b = a/10; // 1,2
dg1 = b; // 1
inv= (dg1*1) + (dg2*2) + (dg3*3);
dig = inv%10;
printf("O DÍGITO VERIFICADOR É: %i\n\n",dig);
system("PAUSE");
}
return 0;

}
```