```
1 #include <stdio.h>
 2 #include <stdlib.h>
3 #include <locale.h>
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 \frac{10}{10} //3
24 b = a/10; // 12
25 	ext{ 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 }
```