```
/*
Phan tich : Giai phuong trinh bac ax + b = 0
INPUT : a,b
OUTPUT: x la nghiem cua pt
Step 1: Xuat thong bao nhap a va b
Step 2: Nhap 2 gia tri cho a va b
Step 3: neu a != 0 thi
                neu b!=0 thi
                    x = -b/a
                    xuat x ra man hinh
                nguoc lai neu b = 0 thi
                    pt vo so nghiem
        nguoc lai neu a = 0 :
                *neu b = 0 : pt vo so nghiem
                *nguoc lai neu b!=0 : pt vo nghiem
--------------------------
Test Case( Kich ban testing )
C1: a = 0 , b = 0 : ket qua in ra : "pt vo so nghiem"
C2: a = 2 , b = 0 : ket qua in ra : "pt vo so nghiem"
C3: a = 0 , b = 5 : ket qua in ra : "pt vo nghiem"
C4: a = 2 , b = 5 : ket qua in ra : x = -2.5000
*/
```

```c
23  #include<stdio.h>
24  main(){
25      int a,b;
26      double x;
27      //Step 1
28      printf("nhap a va b : ");
29      //Step 2
30      scanf("%d%d",&a,&b);
31      //Step 3
32      if(a!=0){
33          if(b!= 0){
34              x = -(double)b/a;
35              printf("PT co nghiem x = %lf",x);
36          }
37          else{
38              printf("PT co vo so nghiem.");
39          }
40      }
41      else if(a==0){
42              if(b==0) {
43                  printf("PT co vo so nghiem.");
44              }
45              else if(b!=0){
46                  printf("PT vo nghiem.");
47              }
48      }
49      getchar();
50  }
```