Exercise 6.8: Give an example of a TIP program where the narrowing sequence diverges for the interval analysis, when using widening followed by narrowing.

TIP 程序：

```
x = 0;
y = -2;
y = y-1;
while(input){
    y = -2;
    y = y-1;
    y = y+x;
    x = x+1;
}
```

without widening:

[x→⊥,y→⊥]
[x→[0,1],y→[-3,-3]]
[x→[0,2],y→[-3,-2]]
[x→[0,3],y→[-3,-1]]
…
序列发散！

with widening:

B = {-∞,-2,-1,0,1,∞}

[x→⊥,y→⊥]
[x→[0,1],y→[-∞,-2]]
[x→[0,∞],y→[-∞,-1]]
[x→[0,∞],y→[-∞,0]]
[x→[0,∞],y→[-∞,1]]
[x→[0,∞],y→[-∞,∞]]
序列收敛，此处达到不动点

using widening followed by narrowing：

[x→⊥,y→⊥]
[x→[0,1],y→[-∞,-2]]
[x→[0,∞],y→[-∞,-1]]
[x→[0,∞],y→[-∞,0]]
[x→[0,∞],y→[-∞,1]]
[x→[0,∞],y→[-∞,∞]]
…
[x→[0,∞],y→[-3,-3]]
[x→[0,∞],y→[-3,-2]]
[x→[0,∞],y→[-3,-1]]
…
narrowing 后序列发散！