

```
1  init {
2      run p1()
3      run p2()
4  }
5  proctype p1() {
6      byte a; a = 'a'
7      do
8          :: (a <= 'z'); printf("%c\n", a); a++
9          :: (a > 'z'); break
10     od
11 }
12 proctype p2() {
13     byte a; a = 'z'
14     do
15         :: (a >= 'a'); printf("%c\n", a); a--
16         :: (a < 'a'); break
17     od
18 }
```

```
1  init {
2      chan chans[2] = [1] of {byte}
3      run p1(chans[0], chans[1])
4      end:run p2(chans[1], chans[0])
5  }
6  proctype p1(chan chanIn; chan chanOut) {
7      byte a; a = 'a'
8      byte b; b = 'z'
9  end:do
10     :: full(chanIn); chanIn?b; printf("%c\n", b)
11     :: empty(chanOut); (a <= 'z'); chanOut!a; a++
12     :: (b == 'a'); (a > 'z'); break
13     od
14 }
15 proctype p2(chan chanIn; chan chanOut) {
16     byte a; a = 'z'
17     byte b; b = 'a'
18 end:do
19     :: full(chanIn); chanIn?b; printf("%c\n", b)
20     :: empty(chanOut); (a >= 'a'); chanOut!a; a--
21     :: (b == 'z'); (a < 'a'); break
22     od
23 }
```