

039 重设坐标

Subtitle

2022/10/05

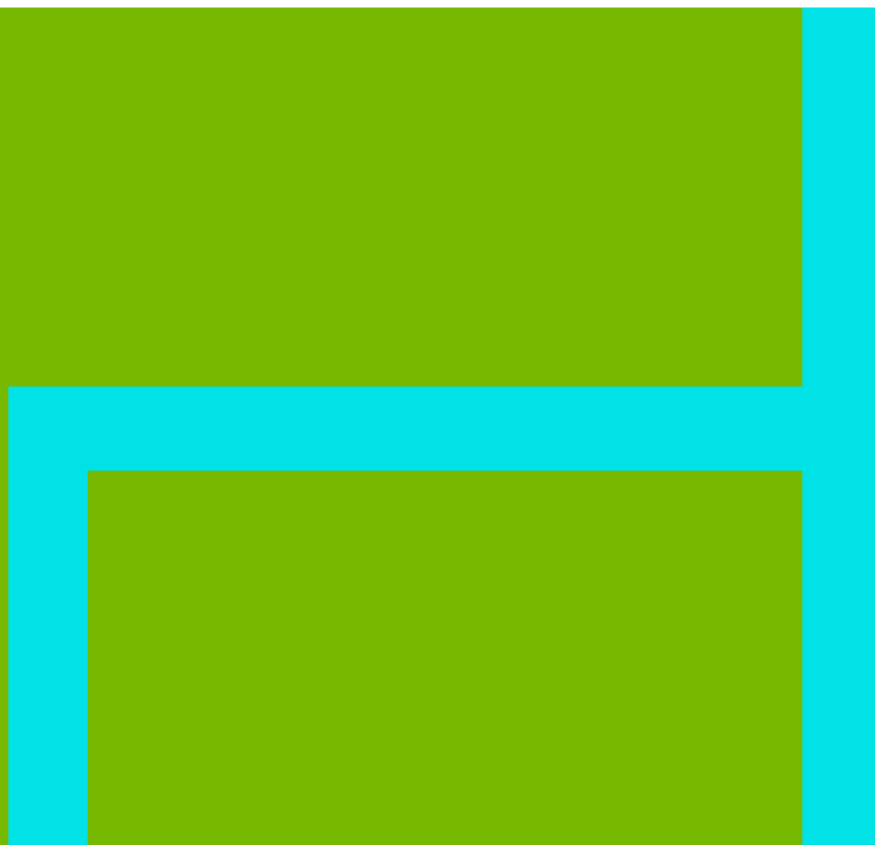


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039 重设坐标

优化目标：14行76步

35行44步

见：<https://github.com/atesgoral/hrm-solutions/blob/master/solutions/39-Re-Coordinator-14.76/35.44-Otto42.asm>

14行73步

见：<https://github.com/atesgoral/hrm-solutions/blob/master/solutions/39-Re-Coordinator-14.76/14.73-FireGoblin.asm>

跟15行79步类似，15行的问题是 COPYFROM 11 执行了两次，为了省去最后一步的 COPYFROM 14 COPYTO 1，导致 INBOX取的数先存后取，且还是在循环内取，因此多执行了几步。

[snippet.asm](#)

```
JUMP    next

out:
ADD     15
OUTBOX
COPYFROM 1
OUTBOX

next:
COPYFROM 14
COPYTO  1
INBOX

cal:
SUB     15
JUMPN   out
COPYTO  0
BUMPUP  1
COPYFROM 0
JUMP    cal
```

15行79步

[snippet.asm](#)

```
JUMP    next

out:
ADD     15
OUTBOX
COPYFROM 1
OUTBOX

next:
INBOX
COPYTO  11
COPYFROM 14
COPYTO  1

cal:
COPYFROM 11
SUB      15
JUMPN    out
COPYTO  11
BUMPUP   1
JUMP     cal
```

38行66步

[snippet.asm](#)

```
COPYFROM 15
ADD      15
COPYTO   11
ADD      15
COPYTO   7

JUMP     next

out:
OUTBOX

next:
COPYFROM 14
COPYTO   0
INBOX
SUB      15
JUMPN    y0
ADD      15
SUB      11
JUMPN    y1
ADD      11
SUB      7
```

```
JUMPN y2
OUTBOX
BUMPUP 0
BUMPUP 0
BUMPUP 0
JUMP out

y0:
ADD 15
OUTBOX
COPYFROM 0
JUMP out

y1:
ADD 11
SUB 15
OUTBOX
BUMPUP 0
JUMP out

y2:
ADD 7
SUB 11
OUTBOX
BUMPUP 0
BUMPUP 0
JUMP out
```

第一次pass 15行84步

[snippet.asm](#)

```
next:
COPYFROM 14
COPYTO 1

INBOX
COPYTO 11

cal:
COPYFROM 11
SUB 15
JUMPN x
COPYTO 11
BUMPUP 1
JUMP cal

x:
```

ADD 15

OUTBOX

COPYFROM 1

OUTBOX

JUMP next

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