

035 删除重复项

Subtitle

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035 删除重复项

优化目标: 17行167步

16行149步

见：

<https://github.com/atesgoral/hrm-solutions/blob/master/solutions/35-Duplicate-Removal-17.167/16.149-fbastien.asm>

执行顺序很好，不用来回取变量

[snippet.asm](#)

```
start:
INBOX
JUMP  out

up:
BUMPUP 14
COPYFROM 12

out:
COPYTO [14]
OUTBOX

loop:
COPYFROM 14
COPYTO 13
INBOX
COPYTO 12

compare:
SUB [13]
JUMPZ loop
BUMPDN 13
JUMPN up
COPYFROM 12
JUMP compare
```

15行177步

[snippet.asm](#)

```
start:
INBOX
COPYTO [14]

out:
COPYFROM [14]
OUTBOX
BUMPUP 14

up:
COPYFROM 14
COPYTO 13

loop:
INBOX
COPYTO [14]

compare:
BUMPDN 13
JUMPN out
COPYFROM [13]
SUB [14]
JUMPZ up
JUMP compare
```

21行161步

[snippet.asm](#)

```
init:
INBOX
COPYTO 0
OUTBOX
COPYFROM 14
COPYTO 13
BUMPUP 13
JUMP loop

out:
COPYFROM [13]
OUTBOX
BUMPUP 13

loop:
COPYFROM 14
COPYTO 12
INBOX
COPYTO [13]
```

```
compare:
SUB    [12]
JUMPZ  loop
BUMPUP 12
SUB    13
JUMPZ  out
COPYFROM [13]
JUMP   compare
```

第一次pass 25行224步

[snippet.asm](#)

```
COPYFROM 14
COPYTO   13
COPYTO   12
INBOX
COPYTO   0
OUTBOX
JUMP     loop

out:
COPYFROM 11
OUTBOX

reset:
COPYFROM 14
COPYTO   12

loop:
INBOX
COPYTO   11

find:
COPYFROM 13
SUB      12
JUMPN    notfound
COPYFROM [12]
SUB      11
JUMPZ    reset
BUMPUP   12
JUMP     find

notfound:
BUMPUP   13
COPYFROM 11
COPYTO   [13]
```

JUMP out

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