0000005c <\_Z13InsertionSortPci>:

5c: 0f 93 push r16

5e: 1f 93 push r17

60: cf 93 push r28

62: df 93 push r29

64: 08 2f mov r16, r24

66: 19 2f mov r17, r25 r17:r16 = (char\*) array

68: 20 e0 ldi r18, 0x00 ; 0 r19:r18 = endpoint

6a: 30 e0 ldi r19, 0x00 ; 0

6c: 26 17 cp r18, r22 if endpoint >= size (! endpoint < size)

6e: 37 07 cpc r19, r23

70: ec f5 brge .+122 then goto exit\_function; 0xec <\_\_stack+0xd>

72: 48 2f mov r20, r24

74: 59 2f mov r21, r25

76: c0 e0 ldi r28, 0x00 ; 0

78: d0 e0 ldi r29, 0x00 ; 0

7a: c2 17 cp r28, r18

7c: d3 07 cpc r29, r19

7e: a4 f4 brge .+40 ; 0xa8 <\_Z13InsertionSortPci+0x4c>

80: f5 2f mov r31, r21

82: e4 2f mov r30, r20

84: 80 81 ld r24, Z tmp = array[endpoint]

86: a8 2f mov r26, r24

88: bb 27 eor r27, r27

8a: a7 fd sbrc r26, 7

8c: b0 95 com r27

8e: f1 2f mov r31, r17

90: e0 2f mov r30, r16

92: 81 91 ld r24, Z+

94: 99 27 eor r25, r25

96: 87 fd sbrc r24, 7

98: 90 95 com r25

9a: a8 17 cp r26, r24

9c: b9 07 cpc r27, r25

9e: 24 f0 brlt .+8 ; 0xa8 <\_Z13InsertionSortPci+0x4c>

a0: 21 96 adiw r28, 0x01 ; 1

a2: c2 17 cp r28, r18

a4: d3 07 cpc r29, r19

a6: ac f3 brlt .-22 ; 0x92 <\_Z13InsertionSortPci+0x36>

a8: f5 2f mov r31, r21

aa: e4 2f mov r30, r20

ac: 90 81 ld r25, Z array[endpoint]

ae: c2 17 cp r28, r18

b0: d3 07 cpc r29, r19

b2: 94 f4 brge .+36 ; 0xd8 <\_Z13InsertionSortPci+0x7c>

b4: b3 2f mov r27, r19

b6: a2 2f mov r26, r18

b8: a0 0f add r26, r16 array+endpoint

ba: b1 1f adc r27, r17

bc: fb 2f mov r31, r27

be: ea 2f mov r30, r26

c0: 31 97 sbiw r30, 0x01 ; 1 array+endpoint-1

c2: 80 81 ld r24, Z array[endpoint] = array[endpoint-1]

c4: 8c 93 st X, r24

c6: 21 50 subi r18, 0x01 ; 1 endpoint--

c8: 30 40 sbci r19, 0x00 ; 0

ca: 41 50 subi r20, 0x01 ; 1

cc: 50 40 sbci r21, 0x00 ; 0

ce: ae 2f mov r26, r30

d0: bf 2f mov r27, r31

d2: c2 17 cp r28, r18

d4: d3 07 cpc r29, r19

d6: 94 f3 brlt .-28 ; 0xbc <\_Z13InsertionSortPci+0x60>

d8: c0 0f add r28, r16 array+endpoint (array[endpoint])

da: d1 1f adc r29, r17

dc: 98 83 st Y, r25

de: 2f 5f subi r18, 0xFF ; 255

e0: 3f 4f sbci r19, 0xFF ; 255

e2: 4f 5f subi r20, 0xFF ; 255

e4: 5f 4f sbci r21, 0xFF ; 255

e6: 26 17 cp r18, r22

e8: 37 07 cpc r19, r23

ea: 2c f2 brlt .-118 ; 0x76 <\_Z13InsertionSortPci+0x1a>

exit\_function:

ec: df 91 pop r29

ee: cf 91 pop r28

f0: 1f 91 pop r17

f2: 0f 91 pop r16

f4: 08 95 ret