

20373585 夏瑞斌 200612

排序前的数据区内容（含插入水印前/后的变化对比）：

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
078F:0053 874402 XCHG AX,[SI+02]
078F:0056 8904 MOV [SI],AX
078F:0058 BB0000 MOV BX,0000
078F:005B 83C602 ADD SI,+02
078F:005E E2EC LOOP 004C
-d ds:0
078A:0000 10 00 C8 00 2C 01 90 01-0A 00 14 00 00 00 01 00 .....
078A:0010 08 00 41 00 28 00 42 00-21 33 3C 00 FF FF 02 00 ..A.(.B.!3<.....
078A:0020 03 00 4D 79 20 6E 61 6D-65 20 69 73 20 32 30 30 ..My name is 200
078A:0030 36 31 32 32 30 33 37 33-35 38 35 20 58 69 61 20 61220373585 Xia
078A:0040 52 75 69 62 69 6E 24 00-30 00 20 78 56 34 12 00 Ruibin$.0. xU4..
078A:0050 B8 6A 07 8E D0 BC 00 02-B8 8A 07 8E D8 EB 30 90 .j.....0.
078A:0060 C5 36 47 00 C4 3E 4B 00-EB 24 EB 22 90 EB 1F 90 .6G..>K..$. "....
078A:0070 90 90 FF E3 FF E3 FF 27-FF 27 FF 2F FF 2E 47 00 .....'. ' /..G.
-e ds:02 85 12
-d ds:0
078A:0000 10 00 85 12 2C 01 90 01-0A 00 14 00 00 00 01 00 .....
078A:0010 08 00 41 00 28 00 42 00-21 33 3C 00 FF FF 02 00 ..A.(.B.!3<.....
078A:0020 03 00 4D 79 20 6E 61 6D-65 20 69 73 20 32 30 30 ..My name is 200
078A:0030 36 31 32 32 30 33 37 33-35 38 35 20 58 69 61 20 61220373585 Xia
078A:0040 52 75 69 62 69 6E 24 00-30 00 20 78 56 34 12 00 Ruibin$.0. xU4..
078A:0050 B8 6A 07 8E D0 BC 00 02-B8 8A 07 8E D8 EB 30 90 .j.....0.
078A:0060 C5 36 47 00 C4 3E 4B 00-EB 24 EB 22 90 EB 1F 90 .6G..>K..$. "....
078A:0070 90 90 FF E3 FF E3 FF 27-FF 27 FF 2F FF 2E 47 00 .....'. ' /..G.
```

这里取了班号和学号的一部分（12 85）

排序后的数据区内容：

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
078F:004C 8B04 MOV AX,[SI]
078F:004E 3B4402 CMP AX,[SI+02]
078F:0051 7308 JNB 005B
078F:0053 874402 XCHG AX,[SI+02]
078F:0056 8904 MOV [SI],AX
078F:0058 BB0000 MOV BX,0000
078F:005B 83C602 ADD SI,+02
078F:005E E2EC LOOP 004C
-g
My name is 20061220373585 Xia Ruibin
Program terminated normally
-r
AX=078A BX=0000 CX=02C3 DX=0000 SP=0200 BP=0000 SI=0000 DI=0000
DS=078A ES=075A SS=076A CS=078F IP=0040 NU UP EI PL NZ NA PO NC
078F:0040 BB0100 MOV BX,0001
-d ds:0
078A:0000 10 00 FF FF 21 33 85 12-90 01 2C 01 42 00 41 00 ....!3.....,B.A.
078A:0010 3C 00 28 00 14 00 0A 00-08 00 03 00 02 00 01 00 <.(.....
078A:0020 00 00 4D 79 20 6E 61 6D-65 20 69 73 20 32 30 30 ..My name is 200
078A:0030 36 31 32 32 30 33 37 33-35 38 35 20 58 69 61 20 61220373585 Xia
078A:0040 52 75 69 62 69 6E 24 00-30 00 20 78 56 34 12 00 Ruibin$.0. xU4..
078A:0050 B8 6A 07 8E D0 BC 00 02-B8 8A 07 8E D8 EB 30 90 .j.....0.
078A:0060 C5 36 47 00 C4 3E 4B 00-EB 24 EB 22 90 EB 1F 90 .6G..>K..$. "....
078A:0070 90 90 FF E3 FF E3 FF 27-FF 27 FF 2F FF 2E 47 00 .....'. ' /..G.
```

可见数据已按降序排列：0xffff > 0x3321 > 0x1285 > 0x0190 > ...