Microsoft Windows [Version 10.0.19043.964]

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C:\8086\MPMC>c: & cd c:\8086\MPMC\ & msdos -v5.0 debug "Sorting.exe"

-u

0E3D:0000 B80040 MOV AX,4000

0E3D:0003 8ED8 MOV DS,AX

0E3D:0005 B504 MOV CH,04

0E3D:0007 B104 MOV CL,04

0E3D:0009 BE0020 MOV SI,2000

0E3D:000C 8A04 MOV AL,[SI]

0E3D:000E 8A6401 MOV AH,[SI+01]

0E3D:0011 38E0 CMP AL,AH

0E3D:0013 7207 JB 001C

0E3D:0015 7405 JZ 001C

0E3D:0017 884401 MOV [SI+01],AL

0E3D:001A 8824 MOV [SI],AH

0E3D:001C 46 INC SI

0E3D:001D FEC9 DEC CL

0E3D:001F 75EB JNZ 000C

-u

0E3D:0021 FECD DEC CH

0E3D:0023 75E2 JNZ 0007

0E3D:0025 CC INT 3

0E3D:0026 0000 ADD [BX+SI],AL

0E3D:0028 0000 ADD [BX+SI],AL

0E3D:002A 0000 ADD [BX+SI],AL

0E3D:002C 0000 ADD [BX+SI],AL

0E3D:002E 0000 ADD [BX+SI],AL

0E3D:0030 0000 ADD [BX+SI],AL

0E3D:0032 0000 ADD [BX+SI],AL

0E3D:0034 0000 ADD [BX+SI],AL

0E3D:0036 0000 ADD [BX+SI],AL

0E3D:0038 0000 ADD [BX+SI],AL

0E3D:003A 0000 ADD [BX+SI],AL

0E3D:003C 0000 ADD [BX+SI],AL

0E3D:003E 0000 ADD [BX+SI],AL

0E3D:0040 0000 ADD [BX+SI],AL

-e 2000

0E2D:2000 00.05

-e 2001

0E2D:2001 00.04

-e 2002

0E2D:2002 00.03

-e 2003

0E2D:2003 00.02

-e 2004

0E2D:2004 00.01

-d 2000

0E2D:2000 05 04 03 02 01 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2010 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2020 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2030 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2040 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2050 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2060 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2070 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

-g

AX=0000 BX=0000 CX=0000 DX=0000 SP=0000 BP=0000 SI=2004 DI=0000

DS=4000 ES=0E2D SS=0E3D CS=0E3D IP=0025 NV UP EI PL ZR NA PE NC

0E3D:0025 CC INT 3

-d 2000

4000:2000 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2010 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2020 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2030 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2040 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2050 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2060 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2070 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

-d 0e2d:2000

4000:2070 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

-d 0e2d:2000

0E2D:2000 05 04 03 02 01 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2010 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2020 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2030 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2040 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2050 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2060 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E2D:2070 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

-q

C:\8086\MPMC>

**Correction: load the data(values of array) with base address plus base address**

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-u

0E3D:0000 B80040 MOV AX,4000

0E3D:0003 8ED8 MOV DS,AX

0E3D:0005 B504 MOV CH,04

0E3D:0007 B104 MOV CL,04

0E3D:0009 BE0020 MOV SI,2000

0E3D:000C 8A04 MOV AL,[SI]

0E3D:000E 8A6401 MOV AH,[SI+01]

0E3D:0011 38E0 CMP AL,AH

0E3D:0013 7207 JB 001C

0E3D:0015 7405 JZ 001C

0E3D:0017 884401 MOV [SI+01],AL

0E3D:001A 8824 MOV [SI],AH

0E3D:001C 46 INC SI

0E3D:001D FEC9 DEC CL

0E3D:001F 75EB JNZ 000C

-u

0E3D:0021 FECD DEC CH

0E3D:0023 75E2 JNZ 0007

0E3D:0025 CC INT 3

0E3D:0026 0000 ADD [BX+SI],AL

0E3D:0028 0000 ADD [BX+SI],AL

0E3D:002A 0000 ADD [BX+SI],AL

0E3D:002C 0000 ADD [BX+SI],AL

0E3D:002E 0000 ADD [BX+SI],AL

0E3D:0030 0000 ADD [BX+SI],AL

0E3D:0032 0000 ADD [BX+SI],AL

0E3D:0034 0000 ADD [BX+SI],AL

0E3D:0036 0000 ADD [BX+SI],AL

0E3D:0038 0000 ADD [BX+SI],AL

0E3D:003A 0000 ADD [BX+SI],AL

0E3D:003C 0000 ADD [BX+SI],AL

0E3D:003E 0000 ADD [BX+SI],AL

0E3D:0040 0000 ADD [BX+SI],AL

-t

AX=4000 BX=0000 CX=0026 DX=0000 SP=0000 BP=0000 SI=0000 DI=0000

DS=0E2D ES=0E2D SS=0E3D CS=0E3D IP=0003 NV UP EI PL NZ NA PO NC

0E3D:0003 8ED8 MOV DS,AX

-t

AX=4000 BX=0000 CX=0026 DX=0000 SP=0000 BP=0000 SI=0000 DI=0000

DS=4000 ES=0E2D SS=0E3D CS=0E3D IP=0005 NV UP EI PL NZ NA PO NC

0E3D:0005 B504 MOV CH,04

-d

0E3D:0000 B8 00 40 8E D8 B5 04 B1-04 BE 00 20 8A 04 8A 64 ..@........ ...d

0E3D:0010 01 38 E0 72 07 74 05 88-44 01 88 24 46 FE C9 75 .8.r.t..D..$F..u

0E3D:0020 EB FE CD 75 E2 CC 00 00-00 00 00 00 00 00 00 00 ...u............

0E3D:0030 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E3D:0040 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E3D:0050 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E3D:0060 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

0E3D:0070 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

-e 4000:2000

4000:2000 00.05

-e 4000:2001

4000:2001 00.04

-e 4000:2002

4000:2002 00.03

-e 4000:2003

4000:2003 00.02

-e 4000:2004

4000:2004 00.01

-d 4000:2000

4000:2000 05 04 03 02 01 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2010 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2020 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2030 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2040 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2050 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2060 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2070 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

-g

AX=0504 BX=0000 CX=0000 DX=0000 SP=0000 BP=0000 SI=2004 DI=0000

DS=4000 ES=0E2D SS=0E3D CS=0E3D IP=0025 NV UP EI PL ZR NA PE CY

0E3D:0025 CC INT 3

-d 4000:2000

4000:2000 01 02 03 04 05 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2010 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2020 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2030 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2040 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2050 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2060 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

4000:2070 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 ................

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