Bubble Sort program

. Mobble Suncell Display macro useg Lea du, msq inov ah, 09H int 2HH

Endus

· Octa

List ob 024, 014, 34H, 09H, 09H, US/A

Number Equ \$-LIST

unsg 1 DB ODH, OAH, "I >> SORT IN ASENDING ORDER\$"

wisg 2 DBODH, OAH, "2 >> SORT IN DESCENDING ORDER \$"

wsg3 DB ODH, OAH, "3>> EXITS\$"

ensy 4 DB ODH, OAH; "Enter your choice: : \$"

usg 5 DB OPH, OAH, "Invalid choice entered... ;"

, CODE

; MOV AX, GDATA START

MUV DS, AX

LEA SI, LIST

MOV CH, NUMBER-1

DISPLAY MSG1

DISPLAY MSG2

DISPLAY MSG3

DISPLAY MSGY

MOV AH, OLH

INT 21H

SUBAL, COST 30H

CMP AL, OTH

JE ASCSORT

CMP AL, OZH

JE DESSURT

CMP AL, O3H

JE FINAL

DISPLAY MSGS

JMP FINAL

ASCSORT: MOV BL, DOH

AGAIN & MOV SZ, GFFLASETLIST

MOV CL, OUH

MOV BH, CH

SUB BH, BL

NPASS: CMPCL, BH

JNC NEXT

MOV AL, [SI]

MOV BP, 01H

CMP AL, DS: (BP) [SI]

JNC-NOPE

XCHG AL, [5]+1)

XCHG (SIJ, AL

-NOPE : INC CL

INC SI

JMP NPASS

MEXT : INC BL

CMP BL, CIT

JC AGAIN

JMP FINAL

DESSORT: MUV BL, OUH

AGAINI: MOUSI, OFFSET LIST

MOV CL, UOH

MUV BH, CH

FSUB BH, BL

MPASS 1: CMP CL, BH

JNC NEXTE

MOV AL, [SI]

MOV BP, OTH

CMP AL, DS: [BP] [ST]

JNC -NOPE 1

XCHG AL, [SI+1]

XCHG [SI], AL

-NOPE 2 : INC CL

INIC SI

JMP NPASS 1

NEXT 1: INC BL

CMP BL, CH

JC AGAINIZ

FINAL: MOVAH, 4CH

INT 21H

END START