DATE: 29/10/2020 Name & Skanda USN: 1BM19CS137 BATCH 2 · MODEL SMALL DISPLAY MACRO MSG LEA DX, MSG MOV AH, OGH INT 21H ENDM · DATA LIST DB 024, 014, 34H, 0F4H, 09H, 05H MUMBER FRU S-LIST MSGI DB ODH, OAH, "I >> SORT TH ASCENDING ORDER \$" MISG 2 DR ODH, OAH, "2 DSORT IN DESCENDING ORDERS" MIGG3 OB ODH, OAH, "3>>EXITS" MISGA DB ODH, OAH "FRITER YOUR CHOICE :: 5" MSGS DB ODH, OAH, "INVALID CHOICE ENTERED S" · CODE START: MOIT AX BDATA MON DS, AX LEA SI, LIST MOV CH, NUMBER-1 DISPLAY MSGI DISPLAY MISG2 DISPLAY MSG3 DISPLAY MSG4 MOV AH, OIH INTZIA SUBAL, 30H

PAGE NOS

CMP AZOIH JE ASCSORT CNIP AL, OZH JE DESSORT CMP AL, OBH JE FINAL DISPLAY MISTAS JMP FINAL ASCSORT: MOV BL, OOD AGAIN: MOYST, OFFSFT LIST MOV CL, OOH MOV, BH, CH SUB BH, BL HADIN -NPASS: CMP (2), BADA JAIC NEXT MOV AL, PSIJ MOV BP, OTH CMP, AL, DS: [BP][S] TC NOPE ... XCHG AL, [ST+1] XCHG [SI] AL NOPE: INCCL TNC ST TMP NPASS MET : INC BL CMP BL, CH JC AGAIN

JMP FINAL

	DESSORT: MON BL, OOH	_
	AGAIN1: MOV ST OFFSET LIST	_
	MOVE CL, OOH	_
	MIOV, BH, CH	
	SUB BH, 13L	
	NIPASSI: CMIP CL, BH	
***	JNIC NEXT	
4	MOV AL [SI]	
~	MON BP, OLH	
No. 1	CMIPAL, DS:[BP][SI]	
	JNE -NOPET	
<b>L</b> '	YCHG PL, [SI+1]	
u'	XCHG [SI], AL	The section was
	- NIBPET: INC CL	The second second
11	INC SI	Spills and soon
	JMP NPASSL	
·	NEXT: INC BC	
-	CMP BL, CH	
	JC AGRINIL	
	FINAL: MOV AW, 4CH	
-	INT 21H	
	CHED START	_`
-	EMD	_`
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Bubble Sort program DENDING MODEL SMALL OPATA n 8 5 a db 05, 07, 04, 03, 06 · Cotok MOV Ax, adate MOV DS, RX MOV CL N dec CL CUTLOOP : MIGN CH, CL MION SI OOL INLOOP: MOV AL, OCSI) THIC SI RIP AL, alsI] xchq AL, a[S] MOV A[SI-1], AL NOEXCH = DGC Ch JMZ INLOOP DEC CL JMZ OUTLOOP MOV AH, 9CH PNIT 21H END