

UDECLARATION.

DECLARD Stack: ARRAY [ 0:47 OF CHAR.

DECLARA Tos: INTELER.

ToS 4 -1 // -1 = Null.

Stace

A PROCEDURE PUSH (X: CHAR) 1F 705 = 4

> THEN OUTPUT "OverAlow". ELSE

Tos + Tos+1 Stack[Toi] <- X ENDIF

END PROCEDURE.

11 Function POP() RETURNS CHAR DEPLARE Val: CHAR IF 705 = -1 TABM RETURN " ELSE Val + Steck [7057 705 4 705-1 RETURN Val

ENDIF END Function.

OUEUE

Back Front (FIFO) Add. Delete Enqueue Dequeve BP

Function Dequeve() RETURNSCHAR DECLARE X: CHAR. IF Quize = O THIN

> ELSE IF FP = 5 THEN FP = 0 ELSE FP <- F8 + 1

X <- ''

ENDIF X= Q[FP]

Q'size 4 Q'size -1 ENDIF RETURN X End Function.

// Clubul ( Cirwlan a): DECLARE Q 2 ARRAY [O?S] OF CHAN DECLARE FI, HP, OSIZE: INT. FP 4-1

BP 4-1 QG2e 40 PROCEDURE Enqueue (X: CHar)

1F OSize = 6 TARN OUTPUT "Oveflow??" EUR IE BP=5 THEN BP=0

> ELSEBP+1 ENDIF Q[BP] + x

OSize = OSize +1 ENDIF END PROCEDURE

11 Adjusting Queues.

11 Create Adjusting Q. // Enqueue.

Procedure Create AQ() DECLARS : INT

> For i e 0 70 5
>
> Queve [i] e " Next.

FP 4-1

BP = -1 End Procedure.

Procedure Enqueue (x: CHAR)

IF BP=UB Then OUTPUT " Oxerflow!!!" ELSE BP = BP+1

Queue [BP] = X End if

11 Dequeve

Function Dequeve () RETURN CHAR Declare item: CHAR

ENDIF

Declare 7: INT

IF BP = -1 Then ; tem = () ELSE

FP = FP+1 item = Queve [FP]

For i = LB TO (UB-1) Overe[i] = Overe[i+1] Next

FP = FP-1 BP = BP-1

RETURN item End Function.