MOV   A,C
RAR   ; store carry flag (LSB of C store in carry without changing C)
MOV   A,B
RAR   ; B rotate right through carry
MOV   B,A
RAR   B
MOV   A,C
RAR   ; C rotate right through carry
MOV   C,A
RAR   C
END

SEARCH: PUSH   PSW
PUSH   B
PUSH   D
PUSH   H; storing data
LXI    H,KEY; KEY the key char address
MOV    B,M
LXI    H,START; START the first address
LXI    D,END; END the end address
L1:    MOV    A,M
CMP    B
JZ     FOUND
MOV    A,D
SUB    L
JNZ    L2
MOV    A,E
SUB    H
JNZ    L2
JMP    NOTFOUND
L2:    INX    H
JMP    L1
FOUND: SHLD   FADD; store the found char address
NFOUND: POP    H
POP    D
POP    B
POP    PSW
RET
LXI B, 0000H → 10 T-State
MVI E, FFH → 7 T-State
LXI B, 927BH → 10 T-State

LOOP
DCX B → 6 T-State
MOV A, C → 4 T-State
ORA B → 4 T-State
JNZ LOOP → 10 T-State

927BH = 37499 Decimal
Freq = 3 MHZ

Td = \{ (10 + 7 + 10) + (37499 * (6 + 4 + 4 + 10) – 3) \} * 1/(3*10^6) = 9*10^5*1/3*10^6

 TD = 0.3 sec

تاخیر اجرای کد زیر دقیقاً برابر 1 ثانیه می‌باشد.
PRICE: PUSH PSW
  PUSH B
  PUSH D
  PUSH H; storing data
  IN PORT; port is the input address in I/O mapped I/O method
  LXI H,TABLE ;table is the price table address
  MOV C,A
  MVI B,00H
  DAD B
  MOV C,M; the price of the input is in C
  LHLD accum; accum is the price sum accumulator address
  DAD B; the price is added to accumulator of prices
  SHLD accum; the new sum is stored
  POP H
  POP D
  POP B
  POP PSW
  RET