سؤالات تذوری (برس رایانه)

تُشَمِين دورهي مسابقات آزمايشگاهي و رايانهي دانشآموزان سراسر کشور درساه ۸۶

پاسختامه سوا لات کثوری درس را یانه مرداد ماه ۸۴ (یزد)

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ياسخ سؤالات عملي (درس راياته)

ششمين دورهي مسابقات ازمايشگاهي و رايانهي دانش آموزان سراسر كشور

يزد - مردانماه ۸۴

```
پاسخ سوال اول:
INPUT N
CLS: X = 13
FOR I = 0 TO N
  NEMA = I
  ZARIB = 1
  X1 = X
  COLOR I + 1
  FOR U = 1 TO I + 1
    LOCATE X1, (I + 1) * 5
    PRINT ZARIB
    ZARIB = ZARIB * NEMA \ U
    NEMA = NEMA - 1
    X1 = X1 - 2
  NEXT U
  X = X + 1
  NEXTI
```

```
DECLARE FUNCTION fact& (n AS INTEGER)
DIM n AS INTEGER, k AS INTEGER, j AS INTEGER
INPUT "enter a number: "; n
k = 0
                                 ياسخ سوال دوم:
DO
 k = k + 1: c = fact(k)
LOOP WHILE c <= n
PRINT n: "=";
FOR j = k - 1 TO 1 STEP -1
    c = fact(i)
    a = n \ c
    IF j = 1 THEN
     PRINT a: "*"; j: "!";
    ELSE
     PRINT a; "*"; j; "!+";
   END IF
    n = n MOD c
NEXT
END
FUNCTION fact& (n AS INTEGER)
  p = 1
  FOR i = 1 TO n
   p = p * i
 NEXT i
 fact& = p
END FUNCTION
```

ياسخ سؤالات عملي (درس رايانه)

ششمين دوردي مسابقات أزمايشگاهي و رايانهي دانش آموزان سراسر كشور

يزد - مردادماه ۸۴

```
DIM x(100, 100) AS INTEGER
DIM r AS STRING, $1 AS STRING, $2 AS STRING
DIM skol AS STRING
CLS
INPUT "Enter first number?"; s1
INPUT "Enter secund number?"; s2
'revers s1
I = LEN(s1)
r = ""
FOR i = I TO 1 STEP -1
  r = r + MID\$(s1, i, 1)
NEXT i
s1 = r
revers s2
I = LEN(s2)
r = ""
FOR i = 1 TO 1 STEP -1
 r = r + MID\$(s2, i, 1)
NEXT i
52 = r
FOR i = 1 TO LEN(s2)
 FOR j = 1 TO i
   x(i, j) = 0
 NEXT
 cary = 0
 FOR j = 1 TO LEN(s1)
   d1 = VAL(MID\$(s2, i, 1))
   d2 = VAL(MID\$(s1, j, 1))
   p = d1 * d2 + cary
   x(i, j+i-1) = p MOD 10
   cary = p \ 10
 NEXT
 x(i, j + i - 1) = cary
NEXT
```

```
cary = 0
FOR i = 1 TO LEN(s1) + LEN(s2) + 1
 Sum = 0
 FOR j = 1 TO LEN(s2)
   Sum = Sum + x(j, i)
 NEXT i
 Sum = Sum + cary: ragam = Sum MOD 10
 cary = Sum \ 10 : skol = CHR$(ragam + 48) + skol
NEXT i
i = 1
WHILE MID$(skol, i, 1) = "0"
 i = i + 1
WEND
IF i = LEN(skol) + 1 THEN PRINT 0
FOR i = i TO LEN(skol)
 PRINT MID$(skol, i, 1);
NEXT
END
```

ulung mell men:

ششمين دورهي مسابقات أزمايشگاهي و رايانهي دانش آموزان سراسر كشور

یزد - مردادماه ۸۴

پاسخ سوال چهار م :

```
INPUT A$ : A$ = UCASE$(A$)
MAX$ = "A" : MIN$ = "Z"
FOR U = 1 TO 8
  Z$ = MID$(A$, U, 1)
  IF Z$ > MAX$ THEN MAX$ = Z$
  IF Z$ < MIN$ THEN MIN$ = Z$
NEXT U
K = ASC(MAX\$) - ASC(MIN\$) + 1
Q = LOG(K) / LOG(2)
IF INT(Q) < Q THEN
  Q = INT(Q) + 1
ELSE
  Q = INT(Q)
END IF
RESULT$ = ""
FOR I = Q TO 1 STEP -1
  5 = 0
  FOR T = 1 TO 8
    F$ = MID$(A$, T, 1)
    P = ASC(F\$) - ASC(MIN\$)
    P1 = P
    FOR E = 1 TO I
      H = P1 MOD 2
      P1 = P1 \ 2
    NEXT E
    S = S + 2 ^ (8 - T) * H
  NEXT T
  RESULT$ = RESULT$ + CHR$(S)
NEXTI
PRINT RESULT$
End
```

ياسخ مؤالات عملي (درس رايانه)

ششمين دورهي مسابقات أزمايشكاهي ورايانهي دانش أموزان سراسر كشور

يزد - مردادماه ۸۴

```
پاسخ سوال پنجم :
DIM a(100) AS SINGLE, x(100, 100) AS SINGLE, t(200) AS SINGLE
DIM n AS INTEGER, s AS STRING, d AS STRING, tv AS STRING, c AS STRING
CLS
degree = 0
INPUT "Enter chand jomlee for Example: 3x^4+5x^3+x^2+6x^1+1x^0"; s
 's = "3x^4+5x^3+x^2+6x^1+1x^0"
 'tashkiseh zarayab ya tayanha
                                                      FOR i = 0 TO n
 i = 1
                                                        FOR i = 0 TO n
 WHILE i <= LEN(s)
                                                         x(i, i + j) = a(i) * a(j)
   d = "": c = ""
                                                      NEXT j, i
   DO
                                                      FOR i = 0 TO 2 * n
    d = d + c: c = MID\$(s, i, 1):
                                       i = i + 1
                                                        FOR j = 0 TO n
  LOOP WHILE LCASE$(c) <> "x" AND i <= LEN(s)
                                                          t(i) = t(i) + x(j, i)
  DO
                                                        NEXT
    c = MID$(s, i, 1): i = i + 1:
                                                      NEXT
  LOOP WHILE c <> "^" AND i <= LEN(s)
                                                      CLS
                                                      PRINT "Chand jomleh ASLY"
  tv = "": c = ""
                                                      FOR i = n TO 0 STEP -1
  DO
                                                        IF a(i) <> 0 THEN
     ty = ty + c: c = MID$(s, i, 1):
                                         i = i + 1
                                                         PRINT USING "+###": a(i):
  LOOP WHILE c <> "+" AND c <> "-" AND i <= LEN(s)
                                                         IF i <> 0 THEN PRINT "x^": i:
  k = VAL(tv)
                                                        END IF
  zarib = VAL(d)
                                                      NEXT
  IF k > degree THEN degree = k
                                                      PRINT
  IF k <> 0 AND zarib = 0 THEN zarib = 1
                                                      PRINT "Resault ="
  'if zarib <>0 and k =0 then
                                                      PRINT
  a(k) = zarib
 WEND
                                                      FOR i = 2 * n TO 0 STEP -1
                                                        IF t(i) <> 0 THEN
 n = degree
'tavan rasandan chand jomleyee
                                                         PRINT USING "+###"; t(i);
 FOR i = 0 TO n
                                                         IF i <> 0 THEN PRINT "x^"; i;
   FOR j = 0 TO 2 * n
                                                        END IF
                                                      NEXT
     x(i, j) = 0
                                                    End
    NEXT j, i
```