

① N ଅମ ଏହି ପର୍ଯ୍ୟନ୍ତ ଯୋଗାଳ

PRINT*, "ENTER THE VALUE OF N"

READ*, N

I = 1

SUM = 0

50 SUM = SUM + I

I = I + 1

IF(I.LE.N) GO TO 50

PRINT*, SUM

STOP

END

② N ଅମ ଏହି ପର୍ଯ୍ୟନ୍ତ ଯୋଗାଳ (ଦେଖାଣା ବିଭାଜ୍ୟ ମୂଲ୍ୟାଙ୍କ)

PRINT*, "ENTER THE VALUE OF N"

READ*, N

I = 1

SUM = 0

20 IF((I/7)*7.EQ.I) GO TO 10

SUM = SUM + I

10 I = I + 1

IF(I.LE.N) GO TO 20

PRINT*, SUM

STOP

END

$$D = b^2 - 4ac$$

Date :

(3) Solve of eqⁿ ($ax^2 + bx + c = 0$) ; $a \neq 0$

PRINT*, "ENTER THE VALUE OF A,B,C"

READ(*,*) A,B,C

IF(A.EQ.0) GO TO 10

$$D = B^2 - 4.0^*A^*C$$

IF(D.GT.0) GO TO 20

IF(D.LT.0) GO TO 30

IF(D.EQ.0) GO TO 40

$$20 P = (-B + SQRT(D)) / (2.0^*A)$$

$$Q = (-B - SQRT(D)) / (2.0^*A)$$

GO TO 50

$$30 P = (-B + SQRT(-D)) / (2.0^*A)$$

$$Q = (-B - SQRT(-D)) / (2.0^*A)$$

GO TO 50

$$40 P = Q = -B / (2.0^*A)$$

50 PRINT*, P,Q

STOP

10 PRINT*, "THE SOLUTION DOES NOT EXIST"

STOP

END

④ Solution of $(a_1x + b_1y = c_1 \text{ and } a_2x + b_2y = c_2)$

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PRINT*, "ENTER THE VALUE OF A1,B1,C1,A2,B2,C2"
READ(*, *) A1,B1,C1,A2,B2,C2
D = A1*B2 - B1*A2
IF (D.EQ.0) GO TO 200
X = (B2*C1 - B1*C2)/D
Y = (A1*C2 - A2*C1)/D
PRINT*, X,Y
STOP
200 PRINT*, "ROOTS DOES NOT EXIST"
STOP
END

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⑤ Parameter & ~~volume~~ Area of triangle

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READ(*, *) A,B,C
P = A+B+C
S = P/2.0
AREA = SQRT(S*(S-A)*(S-B)*(S-C))
WRITE(*, 40) A,B,C, P, AREA
40 FORMAT (3(F10.2,2X), F10.3,2X, F10.5)
STOP
END

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⑥ Triangle psbl or not

READ(*,*) A,B,C

IF (A.EQ.0.OR.B.EQ.0.OR.C.EQ.0) GO TO 10

IF ((A+B).LE.C.OR.(B+C).LE.A.OR.(A+C).LE.B) GO TO 10

PRINT*, "TRIANGLE IS POSSIBLE"

STOP

10 PRINT*, "TRIANGLE IS NOT POSSIBLE"

STOP

END

⑦ Area and volume of a³ box of dimension
a,b,c

PRINT*, "ENTER THE VALUE OF A,B,C"

READ*, A,B,C

AREA = 2.0*(A*B+B*C+C*A)

VOLUME = A*B*C

WRITE(*,50)A,B,C, AREA, VOLUME

50 FORMAT (3(F10.2,2X),F10.5,2X F10.5)

STOP

END

⑧ ID & average of N students.

PRINT*, "ENTER THE NUMBER OF STUDENTS"

READ*, N

I = 1

READ*, ID, S1, S2, S3

SUM = S1 + S2 + S3

AVE = SUM / 3.0

10 PRINT*, ID, AVE

I = I + 1

IF (I.LE.N) GO TO 10

STOP

END .

⑨ Highest Marks of N students.

PRINT*, "ENTER THE NUMBER OF STUDENTS"

READ*, N

I = 1

READ*, X

LAR = X

10 I = I + 1

IF (I.GT.N) GO TO 20

READ*, X

i IF(LAR.GE.X) GO TO 10

LAR=X

GO TO 10

20 PRINT*, LAR

STOP

END

10) How many students attend Exam & got 90+marks

PRINT*, "THE NUMBER OF STUDENTS"

READ*, N

I=0

M=0

K=1

40 READ*, X

IF(X.LE.0.0) GO TO 50

I=I+1

IF(X.GE.90) M=M+1

50 K=K+1

IF(K.LE.N) GO TO 40

PRINT*, "NUMBER OF STUDENT ATTEND IN EXAM", I

PRINT*, "NUMBER OF STUDENT GOT 90+ MARK", M

STOP

END

⑪ CGPA of N Students

PRINT*, "THE NUMBER OF STUDENTS"

READ*, N

I = 1

100 READ*, ID, S1, S2, S3, S4, S5

SUM = S1 + S2 + S3 + S4 + S5

AVE = SUM / 5.0

IF(AVE.GE. 80) GO TO 10

IF(AVE.GE. 75. AND. AVE.LT. 80) GO TO 20

IF(AVE.GE. 70 . AND. AVE.LT. 75) GO TO 30

IF(AVE.GE. 65. AND. AVE.LT.70) GO TO 40

IF(AVE.GE. 60. AND. AVE.LT. 65) GO TO 50

IF(AVE.GE. 55. AND. AVE.LT. 60) GO TO 60

IF(AVE.GE. 50. AND. AVE.LT. 55) GO TO 70

IF(AVE.GE. 45. AND. AVE.LT. 40) GO TO 80

IF(AVE.GE. 40. AND. AVE.LT. 45) GO TO 90

PRINT*, "F"

STOP GO TO 200

10 PRINT*, "A+"

GO TO 200

20 PRINT*, "A"

GO TO 200

30 PRINT*, "A-"

GO TO 200

40 PRINT^{*}, "B+"
GO TO 200
50 PRINT^{*}, "B"
GO TO 200
60 PRINT^{*}, "B-"
GO TO 200
70 PRINT^{*}, "C+"

GO TO 200
80 PRINT^{*}, "C-"
GO TO 200
90 PRINT^{*}, "C-"
200 I = I + 1
IF(I.LE.N) GO TO 200
STOP
END

(12) LARGEST Among 5 numbers

READ*, A, B, C, D, E

LAR = A

IF (A.GE.B) GO TO 30

LAR = B

30 IF (LAR.GE.C) GO TO 40

LAR = C

40 IF (LAR.GE.D) GO TO 50

LAR = D

50 IF (LAR.GE.E) GO TO 25

LAR = E

25 PRINT*, "LARGEST NUMBER", LAR

STOP

END

(13) N numbers and its square and cube

READ*, N

I = 1

J = I ** 2

K = I ** 3

PRINT*, I, J, K

I = I + 1

IF (I.LE.N) GO TO 10

STOP

14) LARGEST and Second Largest.

PRINT*, "How Many NUMBERS"

READ*, N

PRINT*, "ENTER THE NUMBERS"

READ*, A,B

LAR1 = A

LAR2 = B

I = 2

10 IF(LAR1.GE.LAR2) GO TO 20

30 LAR = LAR1

LAR1 = LAR2

LAR2 = LAR

20 I = I + 1

IF(I.GT.N) GO TO 40

READ*, X

IF(LAR2.GE.X) GO TO 20

LAR2 = X

IF(LAR1.GE.LAR2) GO TO ~~30~~ 20

GO TO 30

40 PRINT*, "FIRST LARGEST NUMBER IS", LAR1

PRINT*, "SECOND LARGEST NUMBER IS", LAR2

STOP

END

1 (15) Page 89 → Example: 4.6

INTEGER TYPE

READ*, TYPE

REAL NET, PAY

READ*, NET, PAY

IF (TYPE.EQ.1) GO TO 10

IF (TYPE.EQ.2) GO TO 20

IF (TYPE.EQ.3) GO TO 30

10 NET = PAY - 9.75

GO TO 60

20 NET = PAY - 16.25

GO TO 60

30 NET = PAY - 624.5

60 PRINT*, "NET

16 N numbers in 3 column

READ*, N

I = 1

10 J = I + 1

K = J + 1

PRINT*, I, J, K

IF (I.LE.N-2) GO TO 10

STOP

END

17 N numbers in 3 column without the
divisors of any number

INTEGER DIV

READ*, N

READ*, DIV

I = 1

40 IF (MOD(I,DIV).EQ.0) I = I + 1
J = J + 1

IF (MOD(J,DIV).EQ.0) J = J + 1
K = J + 1

IF (MOD(K,DIV).EQ.0) K = K + 1

PRINT*, I, J, K

I = K + 1

IF (I.LE.N) GO TO 40

STOP

END

18 PRIME NUMBER

READ*, N

I = 2

K = 0

50 IF (MOD(N,I).EQ.0) K = K + 1

I = I + 1

IF (I.LE.N) GO TO 50

IF (K.EQ.1) GO TO 20

PRINT*, "NOT PRIME NUMBER"

STOP

20 PRINT*, "PRIME NUMBER"

STOP

(19) $1 + \frac{1}{3} + \frac{1}{5} + \frac{1}{7} + \dots + \frac{1}{2n-1}$

READ*, N

I = 1

SUM = 0.0

50 SUM = SUM + 1/(2I - 1)

I = I + 1

IF (I.LE.N) GO TO 50

PRINT*, SUM

STOP

(20) $\frac{2}{1} \cdot \frac{4}{3} \cdot \frac{6}{5} \cdot \dots \cdot \frac{2n}{2n-1}$

READ*, N

I = 1

PRO = 1.0

100 PRO = PRO * (2*I / 2*I - 1)

I = I + 1

IF (I.LE.N) GO TO 100

PRINT*, PRO

STOP

END

21) Incrementation in interval of x. Find out the value of y, where $y = x^4 - 5x^2 + 7x - 8$

PRINT*, "UPPER LIMIT"

READ*, U

PRINT*, " LOWER LIMIT"

READ*, Z

PRINT*, " INCREMENT"

READ*, W

X = Z

50 Y = X**4 - 5.0*X*X + 7*X - 8

WRITE (6, 20) X, Y

20 FORMAT (3X, 'X = ', F5.1, 3X, 'Y = ', F6.2)

X = X + W

IF (X.LE.U) GO TO 50

STOP

END

~~20 PRINT *the~~

(22) Fibonacci numbers

READ * N

A = 0

B = 1

I = 2

[N number Fibonacci]

PRINT *, "1 NO FIBONACCI NUMBER IS", A

PRINT *, "2 NO FIBONACCI NUMBER IS", B

40F = A + B

I = I + 1

PRINT *, I, "NO. FIBONACCI NUMBER IS", F

A = B

B = F

IF(I.LE. N-1) GO TO 40

STOP

END

23

109 page \rightarrow 4.32 \rightarrow Sales & Commission

PRINT*, "ENTER THE TOTAL SALES"

READ*, X

IF(X.LT.50) GO TO 20

IF((X.GE.50).AND.(X.LE.500)) GO TO 30

IF(X.GT.500)GO TO 40

~~20 PRINT*, "NO COMMISSION"~~

30 Y = (10./100.)* X

GO TO 10

40 Y = 50 + (8./100.)*(X - 500.)

10 PRINT*, "THE COMMISSION IS:", Y

STOP

20 PRINT*, "NO COMMISSION"

STOP

END

29 III Page - 4.47 (b)

PRINT*, "ENTER THE SIDES OF THE TRIANGLE"

READ*, A, B, C

IF(AEQ.0.OR.B.EQ.0.OR.C.EQ.0) GOTO 10

IF(AEQ.B.AND.B.EQ.C) GOTO 20

IF(A.EQ.B.OR.B.EQ.C.OR.C.EQ.A) GOTO 30

IF(A*A.EQ.B*B+C*C.OR.B*B.EQ.A*A+C*C.OR.C*C=A*A+B*B) GOTO 40

10 PRINT*, "NOT A TRIANGLE"

STOP

20 PRINT*, "EQUILATERAL TRIANGLE"

STOP

30 PRINT*, "ISOSCELES TRIANGLE"

STOP

40 PRINT*, "RIGHT TRIANGLE"

STOP

END

25) N numbers without the divisors of J

PRINT*, "ENTER THE NUMBER"

READ*, N

{ PRINT*, "ENTER THE NUMBER WHOSE DIVISORS ARE
BEING ELIMINATED"

READ*, J

DO 100 I = 1, N.

IF (MOD(I,J).EQ.0) GO TO 100

PRINT*, I

100 CONTINUE

STOP

END

26) 5.25 →

READ*, AMOUNT

READ*, RATE

READ*, N

DO 200 I = 1, N

AMOUNT = AMOUNT + (AMOUNT * RATE)

PRINT*, I, AMOUNT

200 CONTINUE

STOP

END

(27) 13G page \rightarrow 5.12 (b)

INTEGER X, Y

K = 0

DO 100 I = 1, 15

X = I - 8

DO 200 J = 1, 15

Y = J - 8

IF (X**2 + Y**2 .EQ. 50) K = K + 1

200 CONTINUE

100 CONTINUE

PRINT *, K

STOP

END

(28) 138 page \rightarrow 5.29

INTEGER X, Y

K = 0

DO 100 I = 1, 15

X = I - 8

DO 200 J = 1, 11

Y = I - 6

- IF (X**2 + 3**X**"

IF (2**X**X + 3**Y**Y .LT. 100) K = K + 1

200 CONTINUE

100 CONTINUE

PRINT *, K

STOP

EMERGENCY condition