1

START

READ char

IF char >= 'A' AND char <= 'Z' THEN

PRINT "Capital Letter"

ELSE IF char >= 'a' AND char <= 'z' THEN

PRINT "Small Letter"

ELSE IF char >= '0' AND char <= '9' THEN

PRINT "Digit"

ELSE

PRINT "Special Symbol"

END

2

START

READ a, b, c

IF a >= b AND a >= c THEN

max = a

ELSE IF b >= a AND b >= c THEN

max = b

ELSE

max = c

PRINT max

END

START

READ a, b, c

max = (a > b) ? a : b

max = (max > c) ? max : c

PRINT max

END

3

START

READ num1, num2

READ operator (+, -, \*, /, %)

SWITCH(operator)

CASE '+': result = num1 + num2

CASE '-': result = num1 - num2

CASE '\*': result = num1 \* num2

CASE '/': result = num1 / num2

CASE '%': result = num1 % num2

DEFAULT: PRINT "Invalid operator"

PRINT result

END

4

START

READ month\_number

SWITCH(month\_number)

CASE 1: PRINT "January"

CASE 2: PRINT "February"

...

CASE 12: PRINT "December"

DEFAULT: PRINT "Invalid month"

END

5

START

READ n

IF n % 2 == 0 THEN

PRINT "Even"

ELSE

PRINT "Odd"

IF n >= 0 THEN

PRINT "Positive"

ELSE

PRINT "Negative"

END

START

READ n

PRINT (n % 2 == 0) ? "Even" : "Odd"

PRINT (n >= 0) ? "Positive" : "Negative"

END

6

START

READ n

IF n % 5 == 0 AND n % 8 == 0 THEN

PRINT "Divisible by both 5 and 8"

ELSE IF n % 5 == 0 THEN

PRINT "Divisible by 5 only"

ELSE IF n % 8 == 0 THEN

PRINT "Divisible by 8 only"

ELSE

PRINT "Not divisible by 5 or 8"

END

7

START

READ days

IF days <= 5 THEN

fine = 0.50

ELSE IF days <= 10 THEN

fine = 1.00

ELSE IF days <= 30 THEN

fine = 5.00

ELSE

PRINT "Membership canceled"

STOP

PRINT "Fine = ", fine

END

8

START

READ n1, n2, n3, n4, n5

sum = n1 + n2 + n3 + n4 + n5

avg = sum / 5

max = largest among n1..n5

min = smallest among n1..n5

variance = ((n1-avg)^2 + (n2-avg)^2 + (n3-avg)^2 + (n4-avg)^2 + (n5-avg)^2) / 5

std\_dev = sqrt(variance)

PRINT avg, max, min, std\_dev

END