**SEQUENTIAL**

1.

ALGORITHM <dino\_exactage>

dinoName, dinoBreed, dinoYears->0, dinoMonths->0, dinoDays->0, dinoSeconds->0

INPUT dinoName, dinoBreed, dinoYears

PROCESS

dinoMonths = dinoYears / 12

dinoDays = dinoMonths / 365

dinoSeconds = dinoDays \* 86400

OUTPUT dinoName “a” dinoBreed “that lived” dinoYears “-” dinoMonths, dinoDays, dinoSeconds “.”

END <dino\_exactage>

2.

ALGORITHM <Triangle\_hypo>

Triangle\_sideA->0,Triangle\_sideB->0, Triangle\_hypo->0

INPUT Triangle\_sideA->0,Triangle\_sideB->0

PROCESS Triangle\_hypo-> hypot (Triangle\_sideA+ Triangle\_sideB )

OUTPUT Triangle\_hypo “is the hypotenuse of” Triangle\_sideA “and” Triangle\_sideB “triangle.”

END <Triangle\_hypo>

3.

ALGORITHM <CArea\_CCircu>

CRadius, CArea-> 0, CCircu->0, PI->3.54

INPUT Cradius

PROCESS CArea->PI\*CRadius\*Cradius

CCircu->2\*PI\*Radius

OUTPUT CCircu “is the circumference of CRadius.” CArea “is the area of the CRadius”

END

**SELECTION**

1.

ALGORITHM <Divisible9>

A->

INPUT A

PROCESS IF a%9==0 =, THEN

OUTPUT “DIVISIBLE BY 9”

ELSE

OUTPUT NOT DIVISIBLE BY 9

END

2.

ALGORITHM <Poll\_dexType>

INPUT Poll\_dex->0

PROCESS IF Poll\_dex<35 THEN

PLEASANT

OUTPUT “The city pollution index is” PLEASANT “."

END IF

IF Poll\_dex>60, then

OUTPUT “The city pollution index is” HAZARDOUS “."

ELSE

OUTPUT “The city pollution index is” UNPLEASANT “."

ENDIF

END <Poll\_dex>

3.

ALGORITHM <Tarea\_Rarea>

height->0,base->0, Tarea->0, Rarea->0, char shape ‘r’ ‘t’

INPUT height, base, shape

PROCESS if (shape==r), then

Rarea->base\*height.

OUTPUT “The area of the rectangle is” Rarea “.”

else

Tarea -> 0.5\*base\*height

OUTPUT “The area of the triangle is” Tarea “.”

ENDIF

END <Tarea\_Rarea>

4.

ALGORITHM <Jedi\_Application>

Hei-> 0, Rec-> 0, Age-> 0, Citi -> 0

INPUT Hei, Rec, Age, Citi

PROCESS IF Rec == y, THEN

OUTPUT ACCEPTED

ELSE IF(Citi == 1 && Hei => 200) && (Age => 21 && Age =< 25)

OUTPUT ACCEPTED

ELSE

OUTPUT REJECTED

END IF

END <Jedi\_Application>