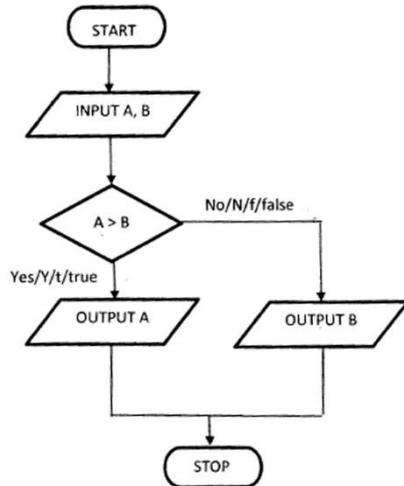


Grade 11 - Programming

1. 60
18
33
50

2.



3. A → Count ≤ 100
B → Input X

C → Max = X
D → Output Max

4. P → 10 Q → I R → Count

5. Begin

```

Input A & B
If (A > B) then
    Print B
Else
    Print A
Endif
  
```

End

6. P → B > C

Q → A > C

7. L → P * Q

M → Q + 1

8.

- i. P → AB, BC, AC
Q → BC > AB + AC
R → Not a Triangle
S → Is a Triangle

- ii. (AB > (BC + AC) OR (BC > (AB + AC) OR (AC > (AB + BC)))

iii. Begin

```

Input AB, AC, BC
If (AB > (BC + AC) OR (BC > (AB + AC) OR (AC > (AB + BC)))
    Display "Not a Triangle"
Else
    Display "Is a Triangle"
Endif
  
```

End

- iv. Is (AB > 0) AND (BC > 0) AND (AC > 0) ?

9. P → 1 Q → 4 R → 3 S → 2

10.

a) 65

b) $P \rightarrow \text{Is } A[k] < \text{Value} ?$

$Q \rightarrow k = k + 1$

$R \rightarrow \text{Display Value}$

c)

A[0]	A[1]	A[2]	A[3]	A[4]
80	45	88	65	72

11. $P \rightarrow \text{Is } L2 = L3?$

$Q \rightarrow \text{Display "isosceles triangle"}$

$R \rightarrow \text{Display "scalene triangle"}$

12. $A \rightarrow \text{num} \leq 9$

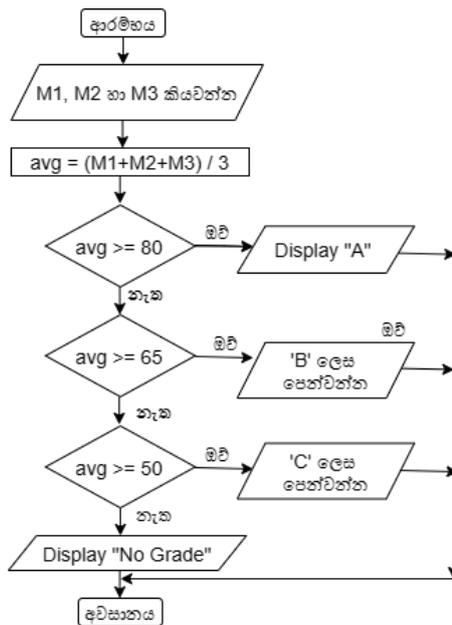
$B \rightarrow \text{sum} + \text{num}$

$C \rightarrow \text{num} + 2$

13. Similarity \rightarrow Used to store values

Difference \rightarrow The values of variables may change during execution.

14.



15. $P \rightarrow 2$

$Q \rightarrow 0$

$R \rightarrow 0$

$S \rightarrow 0$

$T \rightarrow 0$

16. Nirmal & Rajeev

17.

a. Entering 20 numbers and finding their sum.

b. This algorithm runs an infinite number of times.

18. $A = 0$

$B = 50$

$C = \text{kandy_count}$

$D = \text{galle_count}$

$E = 1$

$F = \text{galle_count}$

19. $P = 0$

$Q = 5$

20.

i. Sithara - Bus

Ganesh - Bus

Saleem - Van

Nirmal - Bicycle

ii. Begin

Input TD, D, VF, BF

IF $TD \leq 5$ then

Print "Use Bicycle"

Else IF $TD \leq 15$ then

IF $D < 1$ then

Print "Use Bus"

Else

Print "Use Van"

Else

IF $VF < (2 * BF)$ then

Print "Use Van"

Else

Print "Use Bus"

End.

21. P - E
Q - C
R - A
S - D
T - F
U - B

22. A - 401
B - INPUT
C - BMI = weight / height * height
D - BMI < 18.5
E - BMI < 25.0
F - OUTPUT 'Overweight'
G - Count = Count + 1

23. Begin
 Input N1 and N2
 IF N1 > N2 Then
 Print "N1 is Maximum"
 Else
 Print "N2 is equal or maximum"
 Endif
End

24. A - Yes
B - No
C - Sum = Sum + Number
D - Number > 20

25.
a) 1, 2, 3, 4, 5
b) 1, 4, 7, 10, 13, 16, 19
c) Infinite Loop

26. A - 50
B - 0
C - Total
D - Coin_value
E - Price
F - Price