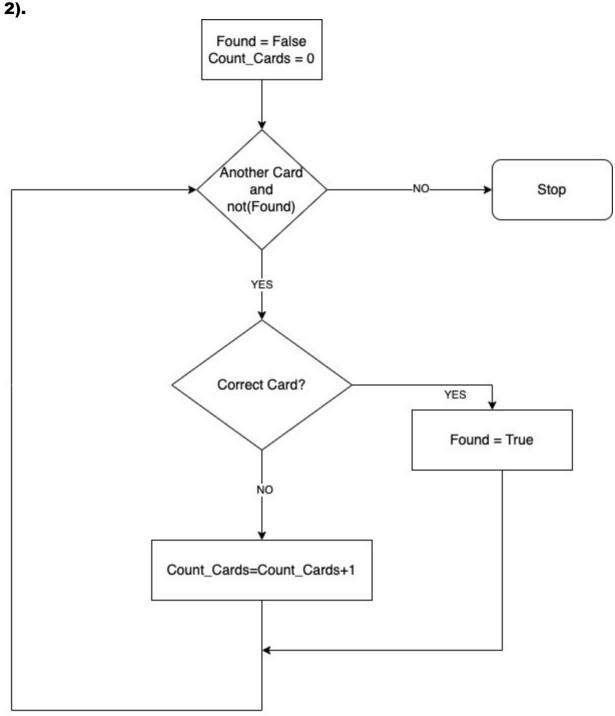
## Week 2 Provisional CT Graded Assignments

(Provisional Means These Are Not Final Answers, Final Will Be Released On Last Day Of Deadline)

Use the following flowchart to answer the below two questions 1) and



2 points

1.If the **Correct Card** is found after 11 iterations of **Another Card**, the **Correct Card** is the 11th, then what is the value of **Count-Cards**?

- (a) 9
- (b) 10
- (c) 11
- (d) 12

2	points
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2.Let's use the Scores dataset and the Correct Card is the user's requirement. How many possible
score-cards does the iteration go through if the user requirement is found in the First Card and all
other cards do not match?

- (a) 30
- (b) 20
- (c) 10
- (d) 1

## 3 points

3. The following procedure finds the minimum marks in **Chemistry scored** by a **Male** student from the **Scores** dataset. However, the programmer may have made mistakes in one or more steps. Identify any such steps (if any).

Step 1: Arrange all cards in a single pile called Pile 1

Step 2: Maintain a variable MIN-CHEMISTRY and initialize with first Chemistry

SCORE where Gender = M

Step 3: If Pile 1 is empty then stop the iteration

Step 4: Read the top card of Pile 1

Step 5: If Gender == M and Chemistry ≥ MIN-CHEMISTRY

Step 6: Update Chemistry = MIN-CHEMISTRY

Step 7: Move the current card to Pile 2 and repeat from step 3

- (a) 2
- (b) 3
- (c) 4
- (d) 5
- (e) 6

## 3 points

4.A programmer has written the following algorithm to find the number of students who are below the **Avg- Marks** in **Scores** dataset. He/she committed a mistake. Can you identify it?

Step 1: Arrange all cards cards in Pile 1

Step 2: Calculated Average marks are stored into Avg-Marks.

Step 3: Initialize Student-Count with 0

Step 4: Stop iteration, when Pile 1 is empty

Step 5: Read one top card from Pile 1

Step 6: If Avg-Marks ≤ TOTAL then add value I to Student-Count

8. Which of the following is the correct pseudocode to find the longest verb length in the **Paragraph** 

Step 7: Move the current card to Pile 2 and repeat Step 4

LongestVerb=NONE

Words dataset?

(a)

```
MaxVerbLength=0
While (Pile 1 has more cards)
{
    Read top card X in Pile 1
    if ( X.PartOfSpeech == "Verb" AND MaxVerbLength < X.LetterCount)
           LongestVerb = X.Word
}
(b)
LongestVerb = NONE
MaxVerbLength = 0
While (Pile 1 has more cards)
  Read top card X in Pile 1
  if ( X.PartOfSpeech == "Verb" AND MaxVerbLength < X.LetterCount)</pre>
        LongestVerb = X.Word
        MaxVerbLength=X.LetterCount
(c)
LongestVerb = NONE
While (Pile 1 has more cards)
{
  Read top card X in Pile 1
  if ( X.PartOfSpeech == "Verb" AND LongestVerb < X.LetterCount)
        LongestVerb = X.Word
   }
(d) None of the above
9.To find out the Minimum Total Marks in Scores dataset. Recommended initial value of Min-Total-
Marks variable
(a) 100
(b) 0
```

2 points

10.Match the following using the pseudocode concept

**Column 1** a) ==

Column 2 i) True

b) =

(c) 1

(d) 282

ii) Equality