Sample algorithm and flow chart

```
Algorithm:
    Step 1: [Read Year]
           Read Year
    Step 2: [Divide the Year by 4 and compare its remainder with zero]
           if (Year % 4 == 0)
                  if (Year % 100 == 0)
                          if (Year % 400 == 0)
                                 Print (The Year is a Leap year)
                          else
                                 Print (The Year is not a Leap Year)
                   else
                          Print (The Year is a Leap Year)
           else
                   Print (The Year is not a Leap Year)
    Step 3: Stop
                                              Start
    Flowchart:
                                            Read Year
                       Yes
                                         if (Year % 4 == 0)
                     if (Year % 100 == 0)
                                                                      Year isn't a Leap Year
                                                  No
                                     No
         if (Year % 400 == 0)
                                                          Year a Leap Year
Year is a Leap Year
                                  Year isn't a Leap Year
```

Flowchart for Switch Statement:

