

Write pseudocode to find  
Smallest possible number among three  
given variables.

Pseudocode

Start

```
Set a to 0;  
Set b to 0;  
Set c to 0;  
Input 'a'  
Input 'b'  
Input 'c'  
If  $a \leq b$ ;  
    If  $a \leq c$ ;  
        Print "a is smallest";  
    Else If  $a > c$ ;  
        Print "c is smallest";  
    End If;  
Else  $b < a$ ;  
    If  $b < c$ ;  
        Print "b is smallest";  
    Else If  $b > c$ ;  
        Print "c is smallest";  
    End If;  
END.
```

Q Create pseudocode to subtract two numbers without using -ve operator.

Pseudocode

Start

Set i to 0;

Set a to 0;

Set b to 0;

Input a;

Input b;

If (a > b)

for (a > b)

Set b to b++;

Set i to i++;

end for;

print("a-b is i");

Else if (b > a)

for (b > a)

Set b to b--;

Set i to i++;

end for;

print("a-b is -i");

Else

print("answer is 0")

End Ifelse-if;

End.



## Algorithm

Date: . . . . .

Q Write an algorithm to determine whether a number is prime or not.

Solution

- 1- Ask the to enter "number".
- 2- Divide the number by 2.
- 3- If remainder is "0" number is <sup>not</sup> prime.
- 4- Keep dividing number by consecutive number till half of that number is approached.
- 5- If remainder at any division is 0 it is prime else it is not prime.
- 6- Display the result on screen.

Q. Create a algorithm that asks user for a day number (1-365) and outputs corresponding day of the week

Solution.

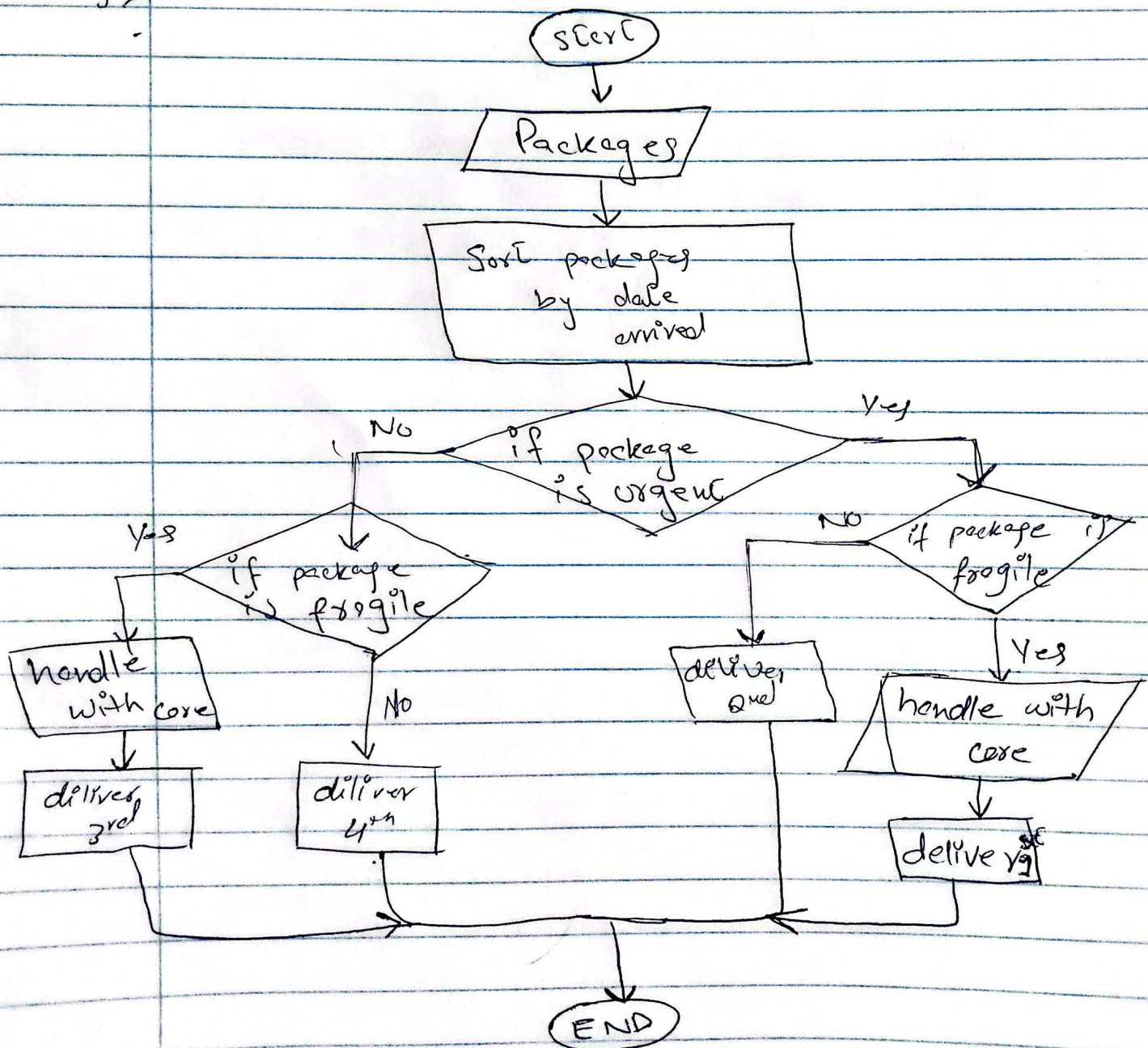
- 1- Ask user to input day.
- 2- Check if day  $> 7$ .
- 3- If true subtract 7 and check condition again.
- 4- If false ~~check~~ then 1 is M, 2 is T, 3 is Wed, 4 is Th, 5 is Fri, 6 is Sat and 7 is Sun.
- 5- Output corresponding day as number.



# Flowchart

Date: \_\_\_\_\_

Q You are working in logistics company responsible delivering packages. Design flowchart for receiving and delivering packages including decision for handling fragile and urgent deliveries.





Q Imagine you are automating process of vending machine. Create a flowchart that includes decision points for user input ...

Flow chart

