Lab3: printf and scanf; branching (if-else)

UNT CSCE1030

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Prepare the working space

1. Pull up the **.pdf file for Lab3** from your canvas account;

2. Start **Putty**
   (cse01.cse.unt.edu
   cse02.cse.unt.edu
   cse03.cse.unt.edu
   cse04.cse.unt.edu
   cse05.cse.unt.edu
   cse06.cse.unt.edu)

printf() and scanf()

1. We need to include library

   #include <stdio.h>

1. printf() is used for outputting

    printf ("text");

   int testInt;

   printf("Number = %d", testInt);

3. scanf("%c %c",&var1,&var2);

Here's a list of commonly used C data types and their format specifiers.

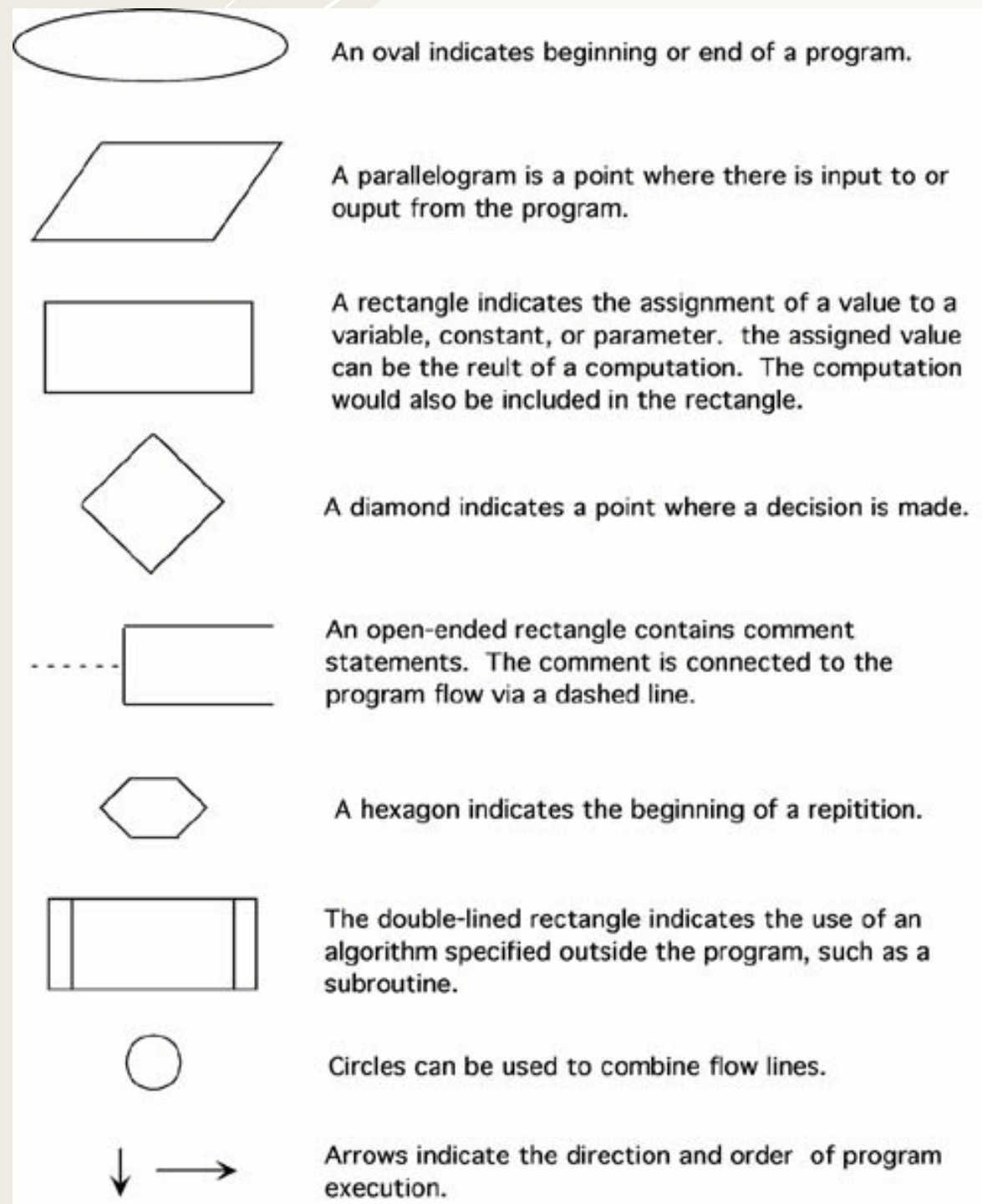| Data Type	Format Specifier
int	%d
char	%c
float	%f
double	%lf

Pseudocode/flowchart

Write down the steps you need to do in your program using plain English:
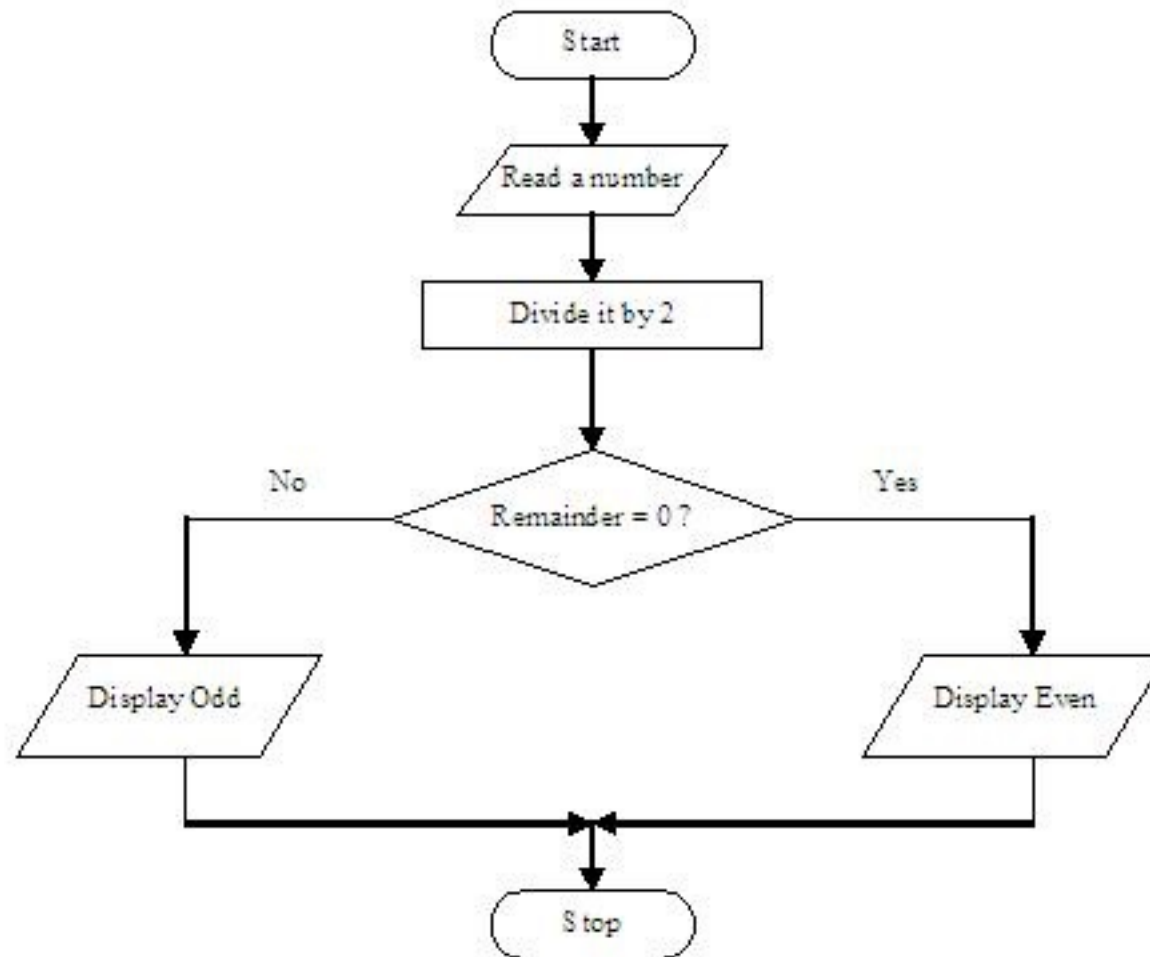
//Step1. Declare variables

//Step2. Initialize variables
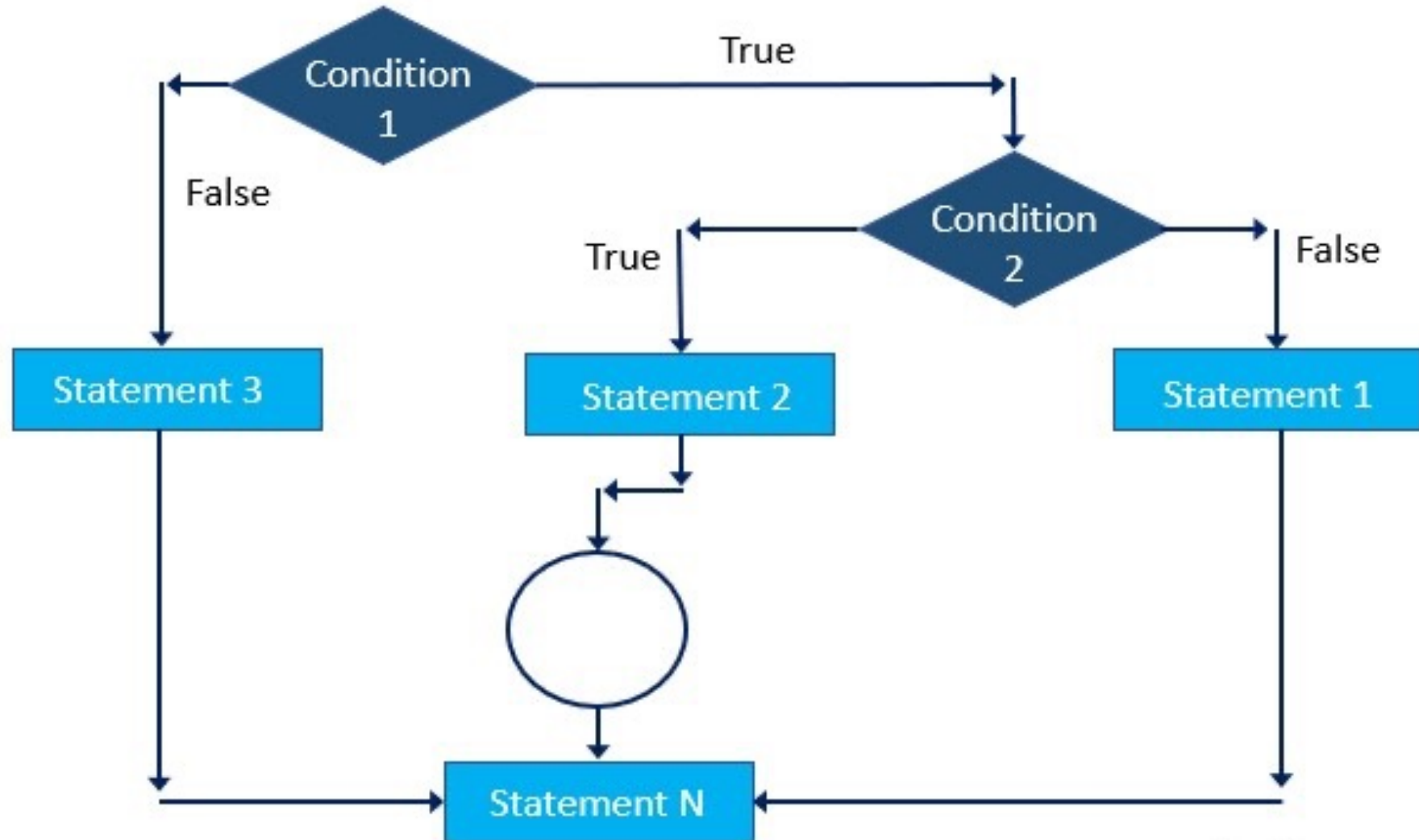
//Step3. Get input from the user

//Step3. Output the result on screen

An oval indicates beginning or end of a program.

A parallelogram is a point where there is input to or ouput from the program.

A rectangle indicates the assignment of a value to a variable, constant, or parameter. the assigned value can be the reult of a computation. The computation would also be included in the rectangle.

A diamond indicates a point where a decision is made.

An open-ended rectangle contains comment statements. The comment is connected to the program flow via a dashed line.

A hexagon indicates the beginning of a repitition.

The double-lined rectangle indicates the use of an algorithm specified outside the program, such as a subroutine.

Circles can be used to combine flow lines.

Arrows indicate the direction and order of program execution.

Branching (if-else)

Nested if-else

www.educba.com

Syntax

```
if(var1==5)

        {

                //block1

        }

        else

        {

                //block2

        }
```

C++ template (a good starting point)

```cpp
/********************************************************************************

   |     |      |       This is a beautiful header for my cool program


********************************************************************************/
#include <iostream>

using namespace std;

int main ()
{



    return 0;
}
```