

* Hamming Weight
 $\{(191)LC\}$ $\{ \begin{matrix} \text{No. of Set Bits} \\ \text{No. of 1 bits} \end{matrix} \} \Rightarrow n = 11 \rightarrow \underline{\underline{1011}}$
 $\{GF(2^m) \rightarrow 2^m - 1\}$ $\{ \text{int hammingWeight(int } n) \}$

$$\begin{aligned} \text{hw}(10) &= 2 \\ \text{hw}(0) &= 0 \\ \text{hw}(15) &= 4 \\ 1111 & \end{aligned}$$

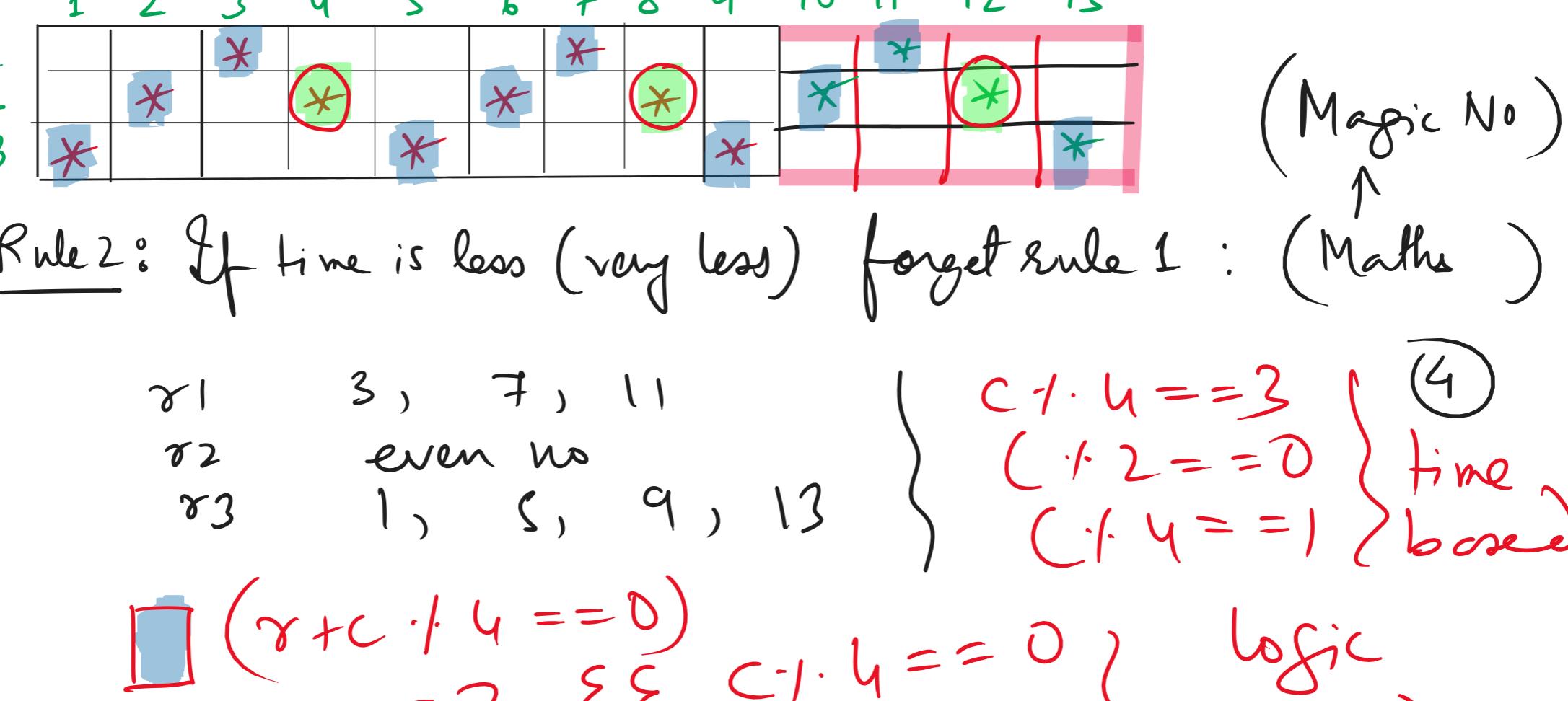
$n = 11 \quad \boxed{x}$ & $\frac{1011}{0001} = T \quad ||| | |$ Count = 0
 $9 \rightarrow 1001$ Odd $n >> 1 = \frac{101}{001} \rightarrow T \quad \begin{matrix} + \\ 1 \\ + \\ 2 \\ + \\ 3 \end{matrix}$
 $n \& 1 == 0$ even $n >> 1 = \frac{10}{01} \rightarrow F \quad \text{TCS Qs}$
 $7 \rightarrow 0111$ $n >> 1 = \frac{1}{1} \rightarrow T \quad 1 >> 1 \quad 0$
 $4 \rightarrow 0100$ Stop

Pattern Programs \rightarrow Rule 1: Break it into similar parts.
 $\{ \text{Static} \mid \text{Dynamic} \} (r=6, c=7)$

0	1	2	3	4	5	6
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*

$P_1 \rightarrow r == 0 \quad c \{ 1, 2, 4, 5 \}$
 $P_2 \rightarrow r == 1 \quad c \{ 0, 3, 6 \}$
 $P_3 \rightarrow r - c == 2 \quad c - r = 0$
 $P_4 \rightarrow r + c == 8 \quad c - r = 0$

TCS \rightarrow NBT 4 GLPA
TCS \rightarrow Ninja 5 GLPA
TCS \rightarrow Basic 6 3-4LPA
Accenture 4 6-8LPA
Wipro 3 6-10LPA

Dynamic Patterns \rightarrow row = constant (3) Col: 9, 13, 17, 21, variable
 \Rightarrow 

Rule 2: If time is less (very less) forget rule 1 : (Maths)

$r_1 = 3, 7, 11$	$r_2 = \text{even no}$	$r_3 = 1, 5, 9, 13$	$\left\{ \begin{array}{l} c - 4 == 3 \\ c - 2 == 0 \\ c - 4 == 1 \end{array} \right. \begin{array}{l} (4) \\ \text{time based} \end{array}$
 $(r + c - 4 == 0)$	 $r == 2 \quad \sum \sum$	$c - 4 == 0$	$\left\{ \begin{array}{l} \text{logic} \\ \text{based} \end{array} \right.$

(N=5) Pyramid (Dynamic Pattern)

1	2	3	4	5	6	7	8	9
*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*

for (i = 1 to N or 5)
{
 spaces
 for ($s_p = 1; s_p \leq N-i, s_p+$)
 print (" ");
 stars
 for ($st = 1; st \leq 2i-1; st++$)
 print (" *");
}

Developer: \Rightarrow folder code unsafe
index.html
script.js
fr.txt
requirements.txt
login.java

Local Area Untracked Area

VCT \rightarrow (git)
empty repository
folder

git init
git add filename
git add .
git commit -m
"message"

(checksum)
git log

find, stat working
SCM tree
online storage
github
master
stable/good
merge
Scrum master
TL