, CASE No	ıWarnMera	G	lera	ıra		estrictionwarnDigital	Įe.	igital	jtal	numOfStuInMera	numOfStuInDigital	
o N III	ictior	Mer	ptyM	ckMe		101131	IIDigit	ptyDi	ckDig	Ofst	Ofst	
AS	estr	sFul	sEm	olu!		פאר	SFu	sEm	일	E	E	
0	0	0	1	0	_	0	0	1	0	0	0	Initial state
						┪					$\overline{}$	A student with odd number of 1's (10101) wants to enter Digital.
1	0	o	1	0		0	0	0	1	0		Unlock Digital. (item 9.b)
											$\overline{}$	A student with even number of 1's (11101) wants to enter Digital.
2	0	0	1	0		0	0	0	1	0		Digital is still unlocked
												A student with even number of 1's (11101) wants to enter Mera.
												Unlock Mera. (item 9.b)
												Digital is locked again because 1 clock passed and there is no other enter/leave
3	0	0	0	1		0	0	0	0	1	_2	operation on Digital.
												A student with odd number of 1's (10101) wants to enter Mera.
4	0	0	0	1		0	0	0	0	2	$\overline{}$	Mera is still unlocked.
												System is in idle mode.
												Mera should be locked (0) since 1 clock passed and there is no other enter/leave
5	0	0	0	0		0	0	0	0	2	$\overline{}$	operation on Mera.
												14 students with even number of 1's (11101) want to enter Digital.
												Check restrictionWarnDigital is active (1)
				_				_				Check students with even number of 1's cannot enter any more (unlockDigital=0)
6	0	0	0	0	_	1	0	0	0		$\overline{}$	Check the total students in Digital is 15.
7				1				_	0	2		A student with even number of 1's (11101) want to enter Mera lab.  restrictionWarnDigital should be passive (0) again. (item 8.c.i)
/	0	0	0	_1		0	0	0	- 0		$\overline{}$	A student with even number of 1's (11101) want to enter Digital lab. <b>This step is not</b>
	0	0	0	0		1		0	۸	2		graded and is used to activate restrictionWarning for next case.
						┧	$\dashv$				$\overline{}$	A student leaves Digital.
8	0	٥	٥	0		٥	0	0	1	3		restrictionWarnDigital should be passive (0)
						$\dashv$	Ť					14 students with odd number of 1's (10101) want to enter Mera lab.
												Check restrictionWarnMera is active (1)
												Check students with odd number of 1's cannot enter any more (unlockmMera=0)
9	1	o	0	0		o	0	0	0	15		Check the total students in Mera is 15.
												System is in idle mode.
												restrictionWarnMera should be passive (0) since there is no student with odd
10	0	0	0	0		0	0	0	0	15	14	number of 1's to enter Mera lab.(item 8.c.ii)
												Let 16 students with odd number of 1's (10101) want to enter Digital.
												isFullDigital should be active (1)
_11	0	0	0	0		0	_1	0	1	15	30	Check numOfStuInDigital is 30
												A student with odd number of 1's (10101) want to enter Digital lab.
												Since the lab is Full, student cannot enter the lab.
												Check unlockDigital=0
12	0	0	0	0		0	_1	0	0	15	30	Check numOfStuInDigital is still 30
												Let 15 students with even number of 1's (11101) want to enter Mera.
												isFullMera should be active (1)
_13	0	_1	0	_1		0	_1	0	0	30	$\overline{}$	Check numOfStuInMera is 30
												A student with even number of 1's (11101) want to enter Mera lab.
												Since the lab is Full, student cannot enter the lab.  Check unlockMera=0
1 1		1		0			4	0	_	20		
_14	0	1	0	0		0	1	0	U	30	30	Check numOfStuInMera is still 30

											A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
											A student leaves Digital.
											isFullDigital should be passive (0)
15	0	1	_0	0	0	0	0		1 30	29	numOfStuInDigital should be 29
											A student leaves Mera.
											isFullMera should be passive (0)
16	0	0	0	1	0	0	0	(	29	29	numOfStuInMera should be 29
											29 students leave Digital.
											isEmptyDigital should be active (1)
17	0	0	0	0	0	0	1	_ :	1 29	0	numOfStuInDigital should be 0
											System is in idle mode.
18	0	0	0	0	0	0	1	(	29	0	There should be no change in values of isEmptyDigital and numOfStuInDigital
											A student leaves digital.
19	0	0	0	0	0	0	1	(	29	0	It is not possible to leave an empty lab (item 11)
											31 students (29+2) leave mera.
20	0	0	_1	0	0	0	1	(	0	0	It is not possible to leave an empty lab.