Nonday - 5 12 19 26 Tuesday - 6 13 20 27 Wednesday - 7 14 21 28 Thursday 1 8 15 22 29 Finday 2 9 16 23 30 Saturday 3 10 17 24 31 Sunday 4 11 18 25 - Nonday - 5 12 19 26 IBOOIOOII Wk-30 [Wk	JULY' 19 Day 205-160 DNESDAY
8	
1 and Data hazards can happen when instruction	reads incorrect
Values.	De are in a self
For example - We take RAW condition. When we format register write hoppens in 5th stage, but	
operation if we have read operation the registe	
in of stage i.e 2nd stage. So. In the pipeline	when the 1st
in of stage i.e 2nd stage. So, In the pipeline instruction in 3rd stage, the 2nd instruction is	its and Stage
2 SO IT is reading increment value as updation of	Value in register
didn't take place. (10)	ck cycles
bubble DOGGGGGGG	
[1] add r1, r2, r3 (IF) 1 2	
14 [2] Sub r4, r1, r2. OF) 1 2 2 2 2	(4)
(EX) 1802	
15 (MA) 1 (A) (B) 2	
(PW) 1 2 2	
Le can see here it there are no stalls of stage	gonna read
incorrect values and compute unfavourable results. Bu	t if we have
" bubbles we can see it compute correct values ay it	testalls until
register writes takes place. So between RW Stage	of their minumen
18 and of stage of 2nd instruction we should atte	part have 3
different of 3 clock cycles. clock cycles.	
<u>A B B 6 7 8 9</u>	·
(a) (a)	(2)
(D) (D)	
notes	*
Phone	
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The second secon	A PARTY OF THE PAR			A STATE OF THE STA		31	unday / 14 21	28
12Ans) L	de look cle	ciely at	the pine	line as	nd we	see the	t value	
has	to be stor	red for t	he about	DAM	ا مام یا	The Africa	+ quidan	10
⁹ and	price real	wired to	Measure	the N	esult	ic ava	ilable	
at	the end	of cycle	2. Other	CIAMAR	ettern (الأس	o availa	Lla
10 on (syde 4 at	the bed	ainning	34 460	2010	neu do	the	טיכ
Yesv	11+ has be	eh prepar	red od	the ev	d of	the Cul	le 3 an	1
the n	need is on	Cycle 4.	Co you	Can a	n Hra	and t	o the ena	1
of	cycle 3. Se	nd value	to the x.	phase	of f	he cecon	d notific	Atima
12 So, n	re can ta	ke the u	ext Step	to it.	This	hon get	the right	
Value	e for reg	stration (and the	delay	ha	heen re	dured.	
13 NO W	we have	reduced	number	of J	talls	in this	Cale !	
3	to Zero.		12 .	1/1	\$	r. Cr. 17	she Iti	
14				@ B	(A) (S	000	O (9)	
	[2] a Id T,	10[22]	3 IF 11			1		
15	[2] Sub >	4,71,72	OF	1 2				
		5 8 8 8	EX	(4) 1	2			
16 basy	ning soula	4 4 5	MA	13 3,490	1 2	tod to a	0.00 4.1	
oval 9	n ti	Elal v o	RW	NU Z	CHAN	2	lol tilas	Mod
17 So S	talls need	ed is wh	most 1 -	7	1, 9	12 ans	ou talda	1
t inited	it to so		be the	52 . 19 N	3 01	of ratio	or inthins	1
8 8 9,	A GOST RA	. Wasta	eus meid	Untix	1 de	1000 11	23160	9
				11/6%	O Show	1 5 1	delinated	
9		(3.01))-3000	U		-		
		(8) (2)	(c (1	t-)	(2)	(3)		
0			[1 1	1 01	101		
				1) (B)	1		
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