chapter 7.12

Assume we have two threads X and Y to som on these CPU, that include the following operations

6	7
no depend - conflicts to - nodepen - depends on	dencies dondonth B. dencies the result of B2
	no depend - conflicts to - nodepen depends on

Depending on above assumption, the instructions flow is shown given below:

		0	1	2	3
Cove 1	FUL	A	AL		
COVE Z	FU2	A ₃		A2	A4
(.)	FUL	BI	B2	B4	
Love 4	FU2	B3			

Total A cycles take to execute these two

Total 7 issue slets are wasted due to hazards Step 1

Assuming BJ, B2, A2 and A3 allow the same functional unit. The SMT processor can schedule the operations as following:

1 0 2 3 4 82 B4

2 A3 B3 A2 A4

Requires 6 cycles to execute, waste 4 issue slots.

Assuming BJ, A2 use different functional units, the SMT processor can schedule the operations as

following:

1				AND BUT THE SPANNING THE CONCERNING THE SPANNING THE SPAN		7	
1		0	1	2	3		
1	A	Al	BI	B2	B4		
	2	A3	B3	A2	AL		
T.)equ	ives	Ac	ex cles	to execut	e, waste	O 1550e Slots