

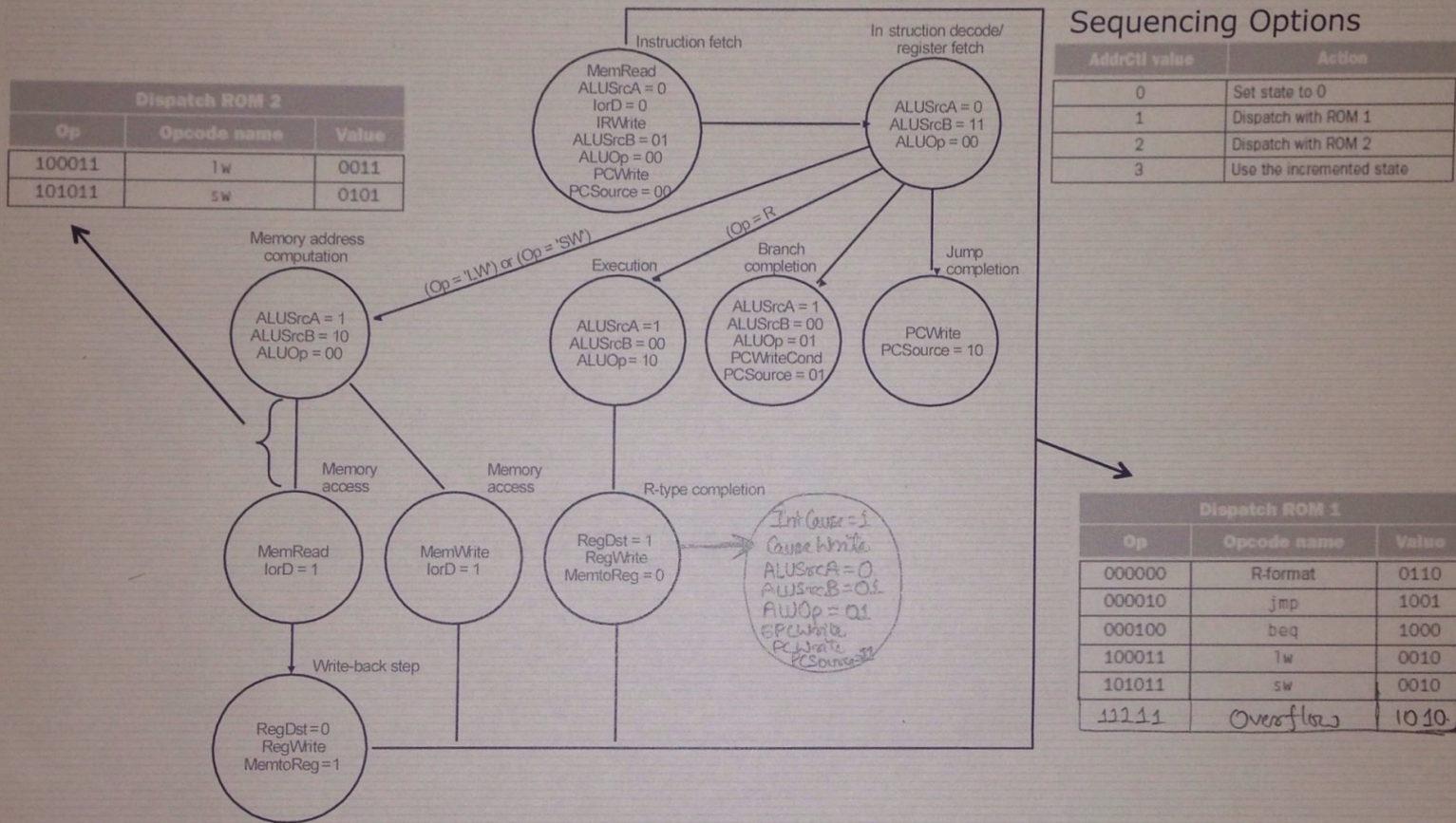
①

Cycle	ALUSrB	ALUOp	RegDst	Instruction	PCWriteCond
12	01	00	0	0x8D0D0000	0
19	10	00	0	0xAD2D0000	0

(C) This is a model answer your implementation may vary.

→ On detecting an Overflow exception we will jump to a special address + offset. This offset will also be an indicator of "type" of exception. For example we can consider an "Overflow" as a arithmetic exception. There could be other class of exceptions like 'PC' not at word boundary exception. All these types of exception will have an offset associated with it as defined in ISA of the architecture. The memory location at Address + offset will have "handler" written for the necessary action that needs to be taken for this certain type of exception. It will flush the instructions in pipeline and start executing the code present at handler.

2b (I)



2b(II)

