Name:		 	 	
Regist	ration:	 	 	

(10 pts.) Given the following partial module for a 2Kx64 RAM chip, fill in the blanks to complete the module.

```
module RAM (adr, CS, RW, di, do);
     input CS, RW;
     input [10:0] adr;
     input [63:0] d i;
     output [63:0] d o;
     reg [63:0] d out;
     reg [63:0] Mem1 [0:2047];
     assign d \circ = (CS \&\& RW)?d \circ ut:64'bz;
     always @ (adr or d i or CS or RW)
          if (CS && !RW)
               Mem1 [adr] = d i;
     always @(adr or CS or RW)
          if (CS && RW)
               d out = Mem1 [adr];
     initial
          $readmemh ("memory1.dat", Mem1);
endmodule
```