1. Add spim levels 0.0, 0.2 and 1 to gcc, build gcc by making cc1, and observe the testcases provided as resources to you.

Perform the following problems on spim machine description level 1.

2. Refer to spim1_3.c in the testcase. Identify the problem and solve the error encountered.

Learning: Understanding the define_insn construct, its structure, and its role in expansion and recognition phase.

3. Rewrite define_expand that generates RTL templates corresponding to patterns Load Word, Store Word, Register Move and Constant Load. Complete the define_expand pattern for the Standard Pattern Name ‘movsi’ that generates the RTL templates corresponding to each of the above define_insn patterns by checking the operands. You can test the built compiler by running the given test case:

```c
int x, y;
int main ()
{
    int a, b, c;
    a = b;
    x = a;
    x = y;
    c = 10;
}
```

Hint: Use emit_insn to call the appropriate gen_function.

Learning: Understanding the define_expand construct and its structure, and how it can help an MD writer to conditionally select a particular pattern.