

D:/Coding/codeGen\3\header.c

```
// 3. Write a C program that includes the C header file generated in step 2

#include

#include "mock_instruction.h"

int main(void) {

    printf("RISC-V Mock Instruction Info\n");
    printf("=====\n");
    printf("Name: %s\n", INST_NAME);
    printf("Long Name: %s\n", INST_LONG_NAME);
    printf("Defined By: %s\n", INST_DEFINED_BY);
    printf("Assembly Format: %s\n", INST_ASSEMBLY);
    printf("Data Independent Timing: %d\n", INST_DATA_INDEPENDENT_TIMING);
    printf("\nEncoding Match: %s\n", INST_ENCODING_MATCH);
    printf("Variable xs2 Location: %s\n", INST_VAR_XS2_LOC);
    printf("Variable xs1 Location: %s\n", INST_VAR_XS1_LOC);
    printf("Variable xd Location: %s\n", INST_VAR_XD_LOC);
    printf("\nAccess Permissions:\n");
    printf(" S: %s\n", INST_ACCESS_S);
    printf(" U: %s\n", INST_ACCESS_U);
    printf(" VS: %s\n", INST_ACCESS_VS);
    printf(" VU: %s\n", INST_ACCESS_VU);
    return 0;
}
```