

21. Write a LEX program to identify the capital words from the given input

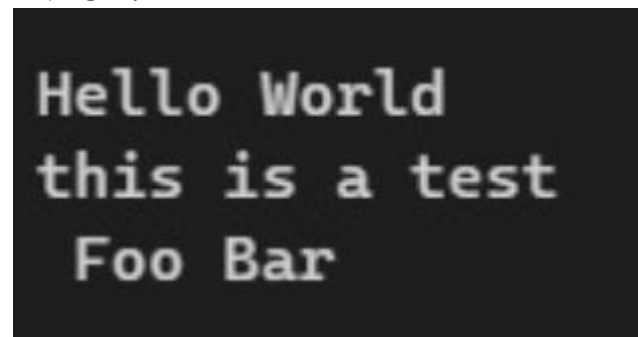
Program:

```
/* Definition section */
%option noyywrap

%%
/* Rule section */
[A-Z][a-zA-Z]* printf("Capital word: %s\n", yytext);
[a-z][a-zA-Z]* /* ignore small words */
[ \t\n] /* ignore whitespace */
. printf("Invalid character: %c\n", *yytext);
%%
/* User code section */

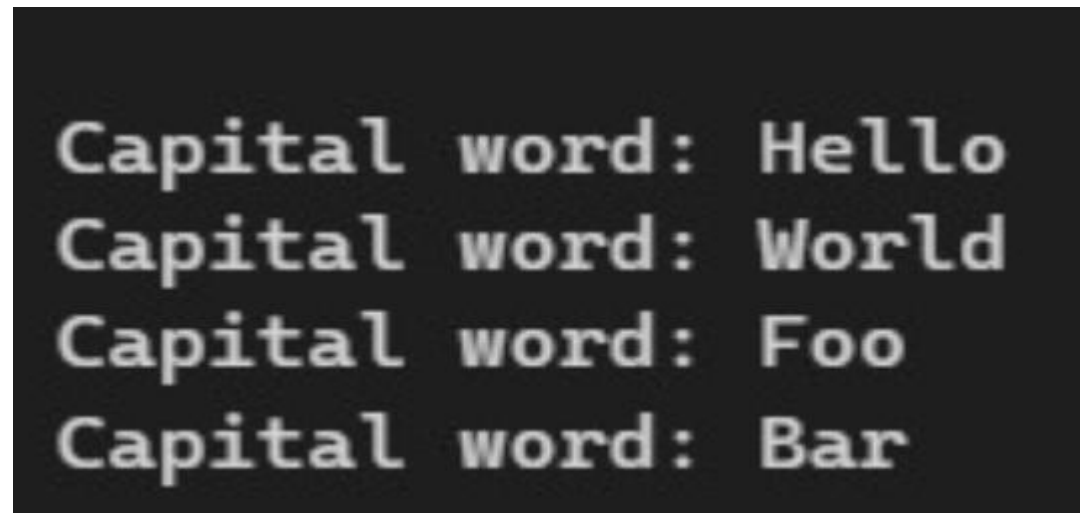
int main() {
    yylex();
    return 0;
}
```

INPUT:

A black rectangular box containing the input text in a white, monospaced font. The text is arranged in three lines: "Hello World", "this is a test", and "Foo Bar".

```
Hello World
this is a test
Foo Bar
```

OUTPUT:

A black rectangular box containing the output text in a white, monospaced font. The text is arranged in four lines, each starting with "Capital word: ". The words "Hello", "World", "Foo", and "Bar" are identified as capital words.

```
Capital word: Hello
Capital word: World
Capital word: Foo
Capital word: Bar
```