Sample Program 1.1

Area Of A Room

Problem statement. Write an algorithm for calculating the area of a rectangular room, and speaking the answer. Include line numbers on each line.

Solution.

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1   Write the label "length" on a new piece of paper.
2   Write the label "width" on the piece of paper.
3   Measure the length of a room in decimal feet, and write it under the
    label "length".
4   Measure the width of a room in decimal feet, and write it under the
    label "width".
5   On a calculator, type the number under the label "length".
6   On the calculator, press the TIMES key.
7   On the calculator, type the number under the label "width".
8   On the calculator, press the EQUALS key.
9   Write the label "area" on the piece of paper.
10  Write the contents of the calculator's display under the label "area".
11  Say out loud "The area of a room ".
12  Say the number under the label "length".
13  Say " feet long and ".
14  Say the number under the label "width".
13  Say " feet wide is ".
14  Say the number under the label "area".
15  Say " square feet.".
```