

# Thinking Like a Programmer

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## Conversion

One example of the kind of thinking that programming requires is conversions. For example, if you have 87 inches of ribbon, and you want to wrap it around a gift box that measures 4 feet around, would you have enough ribbon?

The solution requires a few steps:

1. Determine how many inches there are in a foot.
2. Multiply the box circumference (in feet) by the number of inches per foot to get the total number of inches of ribbon needed to wrap the box.
3. Determine whether the result of #2 is less than or equal to the number of inches of available ribbon.

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1. 12 inches per foot  
2. 4 * 12 = 48 inches of ribbon needed  
3. 48 <= 87
```

So yes, you would have plenty of ribbon. You could almost wrap around twice!

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