



C-Pool

problem 46

WCI

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Example description

the wind chill index (WCI) is calculated from the wind speed v in miles per hour and the temperature t in Fahrenheit.

Three formulas are used, depending on the wind speed:

if $(0 \leq v \leq 4)$ then $WCI = t$

if $(v \geq 45)$ then $WCI = 1.6t - 55$

otherwise, $WCI = 91.4 + (91.4 - t)(0.0203v - 0.304(v)^{1/2} - 0.474)$.

Write a program that can calculate the wind chill index.

Expected Output

```
Enter wind speed in mph (-1 to stop): 50  
Enter temperature in Fahrenheit: 20  
  
For wind speed = 50.00 and temperature = 20.00  
Wind Chill Index is: -23.00
```