National Taipei University of Technology  
Object-Oriented Programming (fall, 2012)  

Homework #1  
(Due: 2012/10/03 11:00 a.m.)

1. 以上課時的 dot product程式為基礎，完成task1~4(程式)。(100 %)
   List of tasks

   1. Write the simplest program (I can) to solve the three examples
   2. Compute dot product, determine if illegal.
   3. Fix the -9999 problem in dotProduct
   4. Take care of input.

A sample session executing your program:

Input two vectors. Give dimension first, then their components. Separate numbers by space:
Vector 1: 2 1 0
Vector 2: 2 0 1
Dot product: (1,0) dot (0,1) = 0

Another execution:

Input two vectors. Give dimension first, then their components. Separate numbers by space:
Vector 1: 3 1 0 0
Vector 2: 2 0 1
Dot product: (1,0,0) dot (0,1) is illegal

Note:
◆ 程式必須能在 Dev C++ 上正常編譯執行。
◆ 記錄你完成 task1~4 過程中，應用“How to solve it”四個步驟的歷程。
◆ 封裝 hw1.cpp 以及 hw1-htsi.txt 為 1005903XX_hw1.zip，並上傳到 open cyber classroom。
◆ 歡迎討論但嚴禁抄襲，若發現抄襲一律以0分計算。