Class 2 - Find the Torsional Angle

You are given four points A, B, C and D in a 3-dimensional Cartesian coordinate system. You are required to print the angle between the plane made by the points A, B, C and B, C, D in degrees(**not radians**). Let the angle be PHI.

$Cos(PHI) = (X.Y)/|X||Y|$ where $X = AB$ x BC and $Y = BC$ x CD.

Here, $X.Y$ means the dot product of X and Y, and AB x BC means the cross product of vectors AB and BC. Also, $AB = B - A$.

Input Format

One line of input containing the space separated floating number values of the X, Y and Z coordinates of a point.

Output Format

Output the angle correct up to two decimal places.

Sample Input

```
0 4 5
1 7 6
0 5 9
1 7 2
```

Sample Output

```
8.19
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