

Problem of the Fortnight

Finishing date: 10/25/2019

The spirits of three hundred Spartans are sitting in a circle around Pythia. Each spirit knows precisely how many enemies he managed to slay in the legendary battle of Thermopylae. For any integer k between two and one hundred, Leonidas can request for Pythia to tell him the sum of the number of enemies that each group of k consecutive spirits killed together. What is the fewest number of integers k that Leonidas needs to ask about in order to determine how many enemies his son slew?

Previous problem winners:

Milton Assuncão (First solution).

and

Joshua Laube



M.-J. Blondel (1828)

All the information about the Problem of the Week challenge can be found at:
utdallas.edu/math/undergraduate/problem-of-the-week

