## **Constant Product**

Submission deadline: April  $30^{\mbox{th}}$  2019

Let f be a positive valued continuous function defined on the interval [0, 2019] such that  $f(x) \cdot f(2019 - x) = 1$  for all x in its domain. Evaluate

$$\int_0^{2019} \frac{1}{1 + f(x)} dx$$