Algorithm 1: Belief-based Prediction Aggregation

---

1 <u>function Euclid</u> (a, b);

   Input   : Probability distribution over target categories of all images for one product

   Output: Category prediction of the product

2 **if** $b = 0$ **then**

3 | return a;

4 **else**

5 | return Euclid($b, a \mod b$);

6 **end**