# Exercise 1: supervised learning, unsupervised learning and reinforcement learning

Classify the following learning problems as supervised learning, unsupervised learning and reinforcement learning tasks.

(a) Identification of products frequently bought together - **unsupervised**

(b) Chess computer capable of learning from previous games - **reinforcement**

(c) Spam recognition and filtering - **supervised**

(d) Classification of applicants as credit-worthy or unworthy - **supervised**

(e) Object recognition in computer vision - **supervised**

(f) Obstacle avoidance in robotics – **reinforcement**

(g) Automatic sorting of images wrt the depicted objects – **unsupervised**