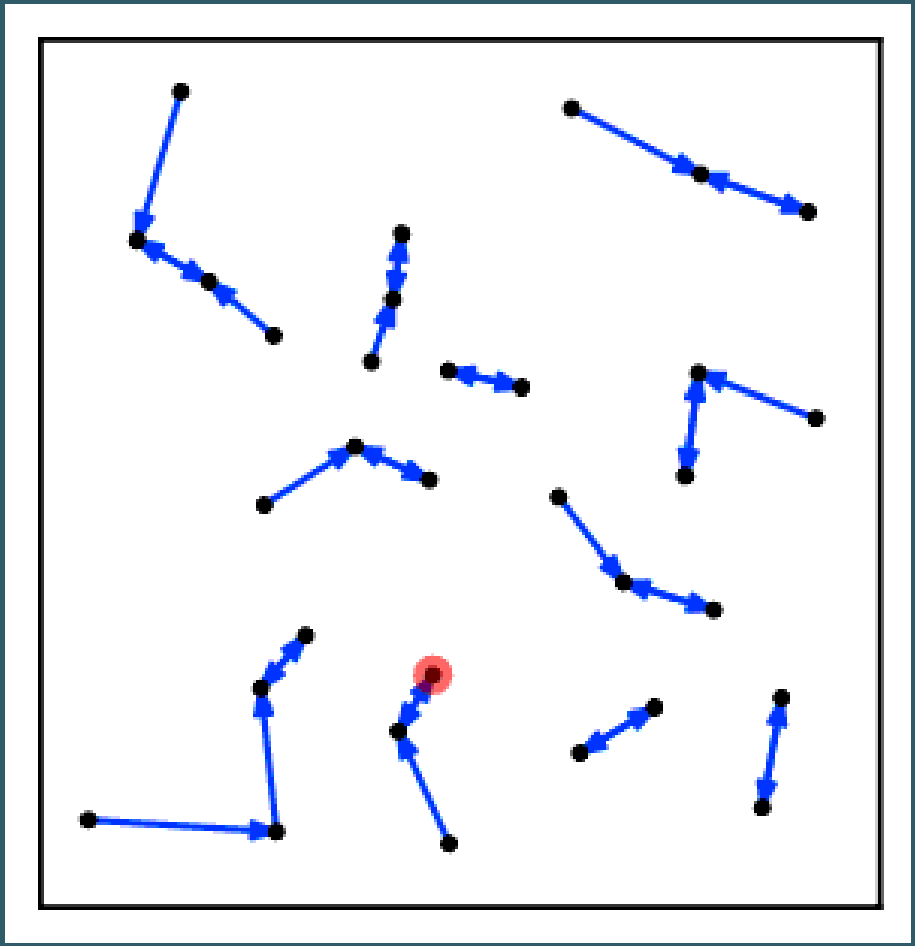

LIKE A GOOD NEIGHBOR
STAY OVER THERE
Howdy neighbor!
Can I borrow a cup
of milk?
New neighbors

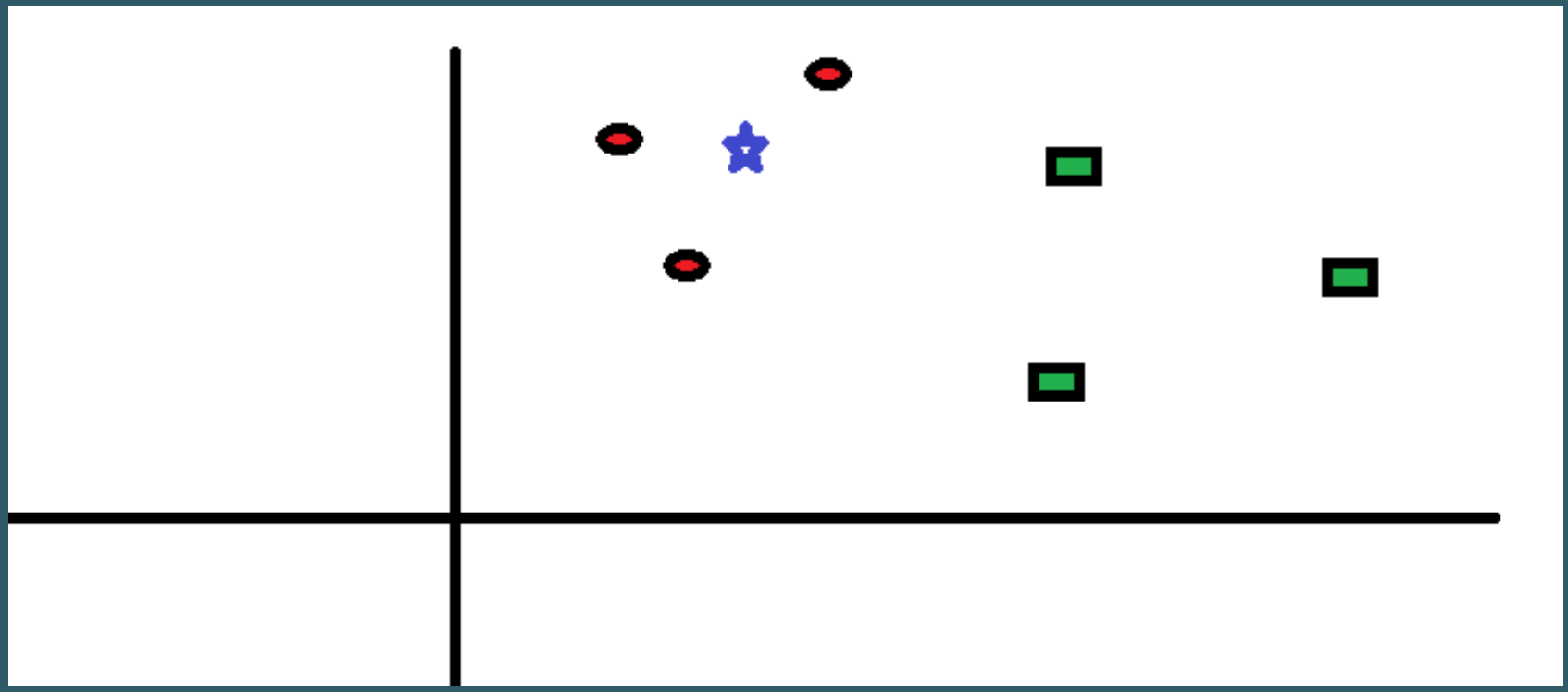
KNN

- K Nearest Neighbors



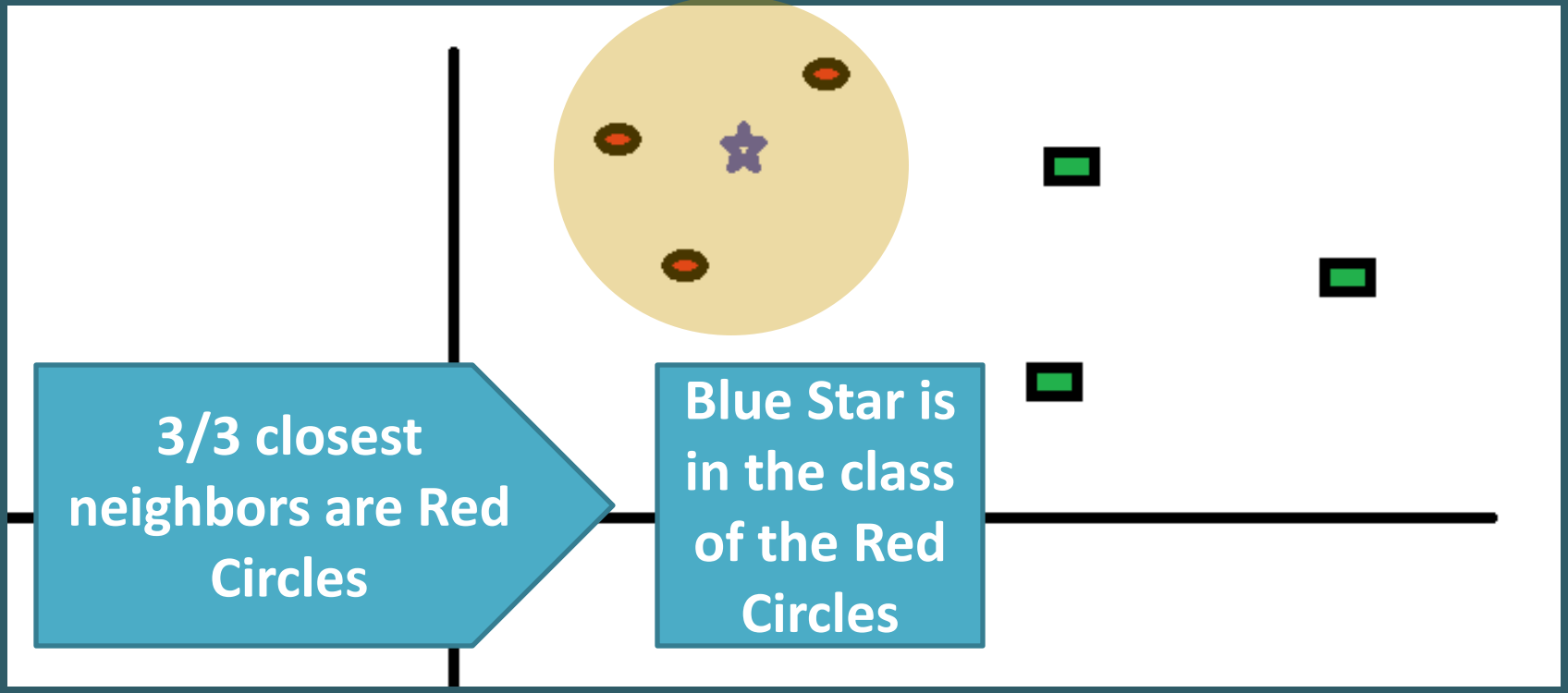
KNN

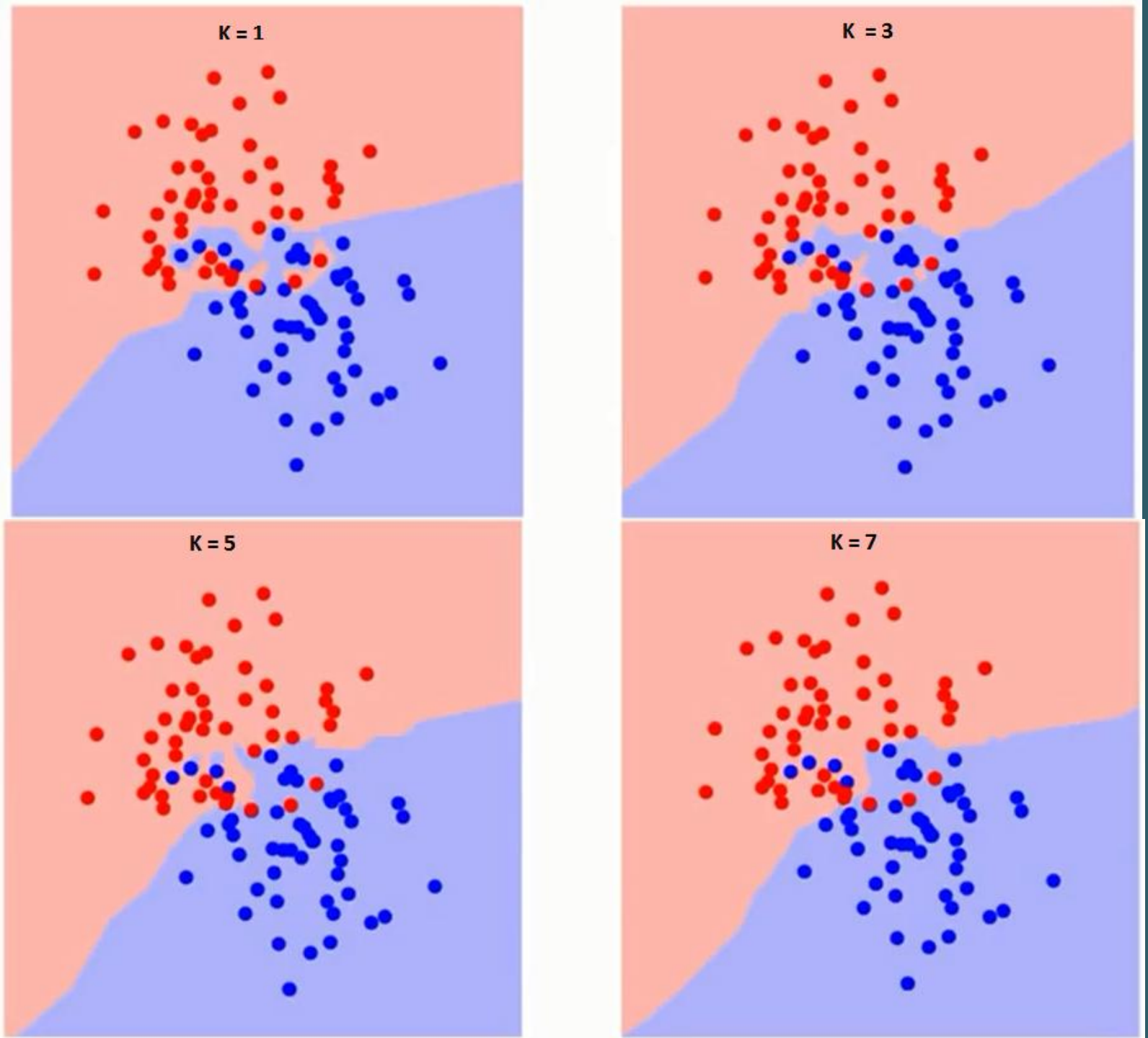
- Ex. Find the class of the blue star



KNN

- Say, we want the 3 (K = 3) nearest neighbors to be accounted for when determining class




K = 1
K = 3
K = 5
K = 7
Boundary Becomes Smoother
All Red or All Blue

KNN

- K = # classes
- K = 1 ➔ OVERFITTING
- K = 1000000000 ➔ UNDERFITTING