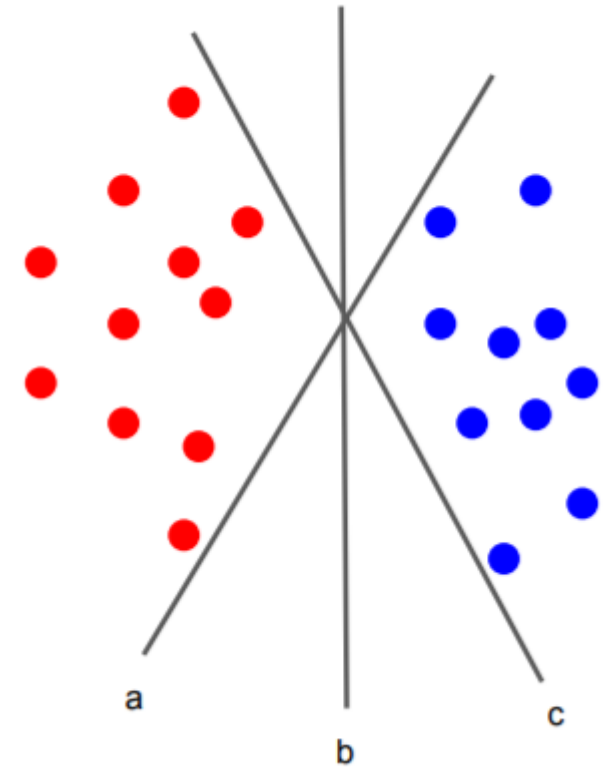


SVM

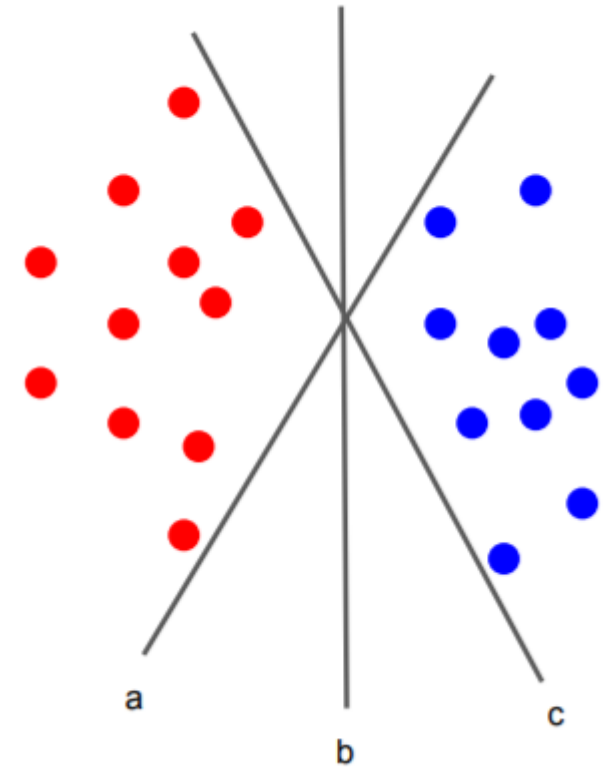
- Which of the three hyperplanes would be selected by a support vector machine?



SVM

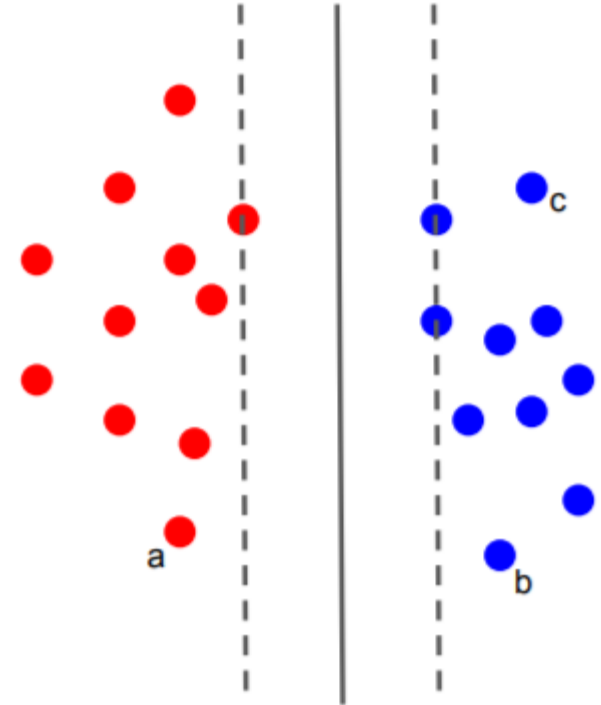
- Which of the three hyperplanes would be selected by a support vector machine?

Answer: b. SVM will select the hyperplane with maximum margin.



SVM

- If we remove any one point from $\{a, b, c\}$, does the decision boundary will change?



SVM

- If we remove any one point from $\{a, b, c\}$, does the decision boundary will change?

Answer: No. a, b, c are not support vectors, these three data points won't affect the decision boundary.

