

Exercise 1

Given the dataset :

Rating(1-5)	Number of Words	Class
5	180	C
5	120	B
4	150	C
2	60	B
3	90	B
5	200	A
1	30	B
3	80	A
4	110	B
1	45	A

Consider a new review with Rating = 5 and Number of Words = 11.

1. Using the Euclidean distance, what would be the class of this review considering only the nearest neighbor? What would it be using $k = 3$ nearest neighbors?
2. Using the Manhattan distance, what would be the class of this review considering only the nearest neighbor? What would it be using $k = 3$ nearest neighbors?