

Nearest neighbor Classifier

- data:

	X		Y	Query Q		$d^2(X,Q)$
A	3	3	1	2	-1	17
B	2	1	1			4
C	1	2	1			10
D	3	1	1			5
E	-3	-3	0			29
F	-2	-1	0			16
G	-1	-2	0			10
H	-3	1	0			29
I	-3	-3	0			29

- closest point (nearest neighbor) to query Q is B
- B belongs to class 1 -> Q is assigned to class 1

