KNN

$$d_M = \left(\sum_{i=1}^{d} \left| x_i^{(P)} - x_i^{(a)} \right|^n \right)^{\frac{1}{n}} \quad [n=1]$$

age	Income	Manhattan distance	d		age	d
21	60	22-21	1		22	0
20	55	22-20	2		22	0
22	60	22-22	0		21	1
22	61	22-22	0		23	1
23	65	22-23	1		21	1
21	62	22-21	1		20	2
25	65	22-25	3		25	3
30	70	22-30	8		30	8
~~21~~ 31	68	22-31	9		31	9
22	??					

Prediction

age = 22

using KNN, income = ?

as, K = 3

we will take first three values.

Income for age 22 is (Predicted),

$$\text{Income} = \frac{60 + 61 + 60}{3}$$

$$= \frac{181}{3} = 60.333$$