$$R(U_{1},U_{2}) = (3)(1) + (3)(2) + (3)(2)$$

$$R(U_{1},U_{3}) = (3)(3) + (3)(3) = 1$$

$$R(U_{1},U_{3}) = (3)(3) + (3)(3) = 1$$

$$R(U_{1},U_{3}) = (3)(5) + (3)(5) + (5)(5) = 1$$

$$R(U_{4},U_{5}) = (3)(5) + (3)(5) + (4)(5) = 0.9701$$

$$R(U_{4},U_{5}) = (3)(5) + (3)(5) + (4)(5) = 0.9701$$

$$R(U_{4},U_{5}) = (3)(1) + (3)(2) + (4)(1)$$

$$R(U_{4},$$

=) for users Users

=) For user 4 > users

(0)		and the state of t	ne radius no chine de la companie de	And the Control of th	Nor 1 - Charleto Manton Manhaus and a superior superior
(19)	. Iden 11	Iden 2	1 Hemis	Iten4	Mean.
Userl	0	0	Š	0	3
User	-0.5	0.5	-0.5	0.5	1.5
Usces	?	?	0	?	3
Uscay	-0.333	-0.733	0.667	7	3-333
Usies	0	0	0	0	5
(b) Aid cosine (I_3, I_1) = $(-0.5)(0.5) + (-0.333)(0.64) + 0.65^2 + 0.667^3$ = 0.028 0.036×0.8336 = 0.05567 Aid cosine (I_3, I_4) = $(-0.5)(0.5) + (-0.333)(0.667)$ $0.5^2 + 0.667^2 \cdot \sqrt{0.5^2 + 0.333^2}$ = 0.47211 0.8836×0.601 = 0.9425					
Ajd cosine $(I_3, I_4) = (-0.5)(0.5) = -1$ $\sqrt{0.52} \sqrt{0.52}$					
RI	(U, 913) = (0	(49220.	(3)+1	0.9424)(3

10-05567)(3)+(0.9424)(3)

(C) Usee 3 may be least reliable in teams of their provided rating. Also it has so much unknow rating. Who usee 2 is the sest choice because it rated all the item and also it has different type of rating based on usee's likeness of item.

d) Using the median we can make prediction more robust and accurate in certain case. There are many missing value in the table , when calculating the mean these values will be treated as 0 but in median we can simply ignore these robus. The median is better choice where the dataset has outliers or missing values that could significantly skew the mean.