1.

201:(16, 148) (8, 162) (8, 177) (4, 183) (2, 192) (1, 197) (1, 200)

202:(16, 148) (8, 162) (8, 177) (4, 183) (2, 192) (2, 200) (1, 202)

203:(16, 148) (8, 162) (8, 177) (4, 183) (2, 192) (2, 200) (1, 202)

204:(16, 148) (8, 162) (8, 177) (4, 183) (2, 192) (2, 200) (1, 202)(1,204)

205:(16, 148) (8, 162) (8, 177) (4, 183) (2, 192) (2, 200) (1, 202)(1,204)

206:(16, 148) (8, 162) (8, 177) (4, 183) (4, 200) (2,204)(1,206)

207:(16, 148) (8, 162) (8, 177) (4, 183) (4, 200) (2,204)(1,206)

208: (8, 162) (8, 177) (4, 183) (4, 200) (2,204)(1,206)(1,208)

209:(8, 162) (8, 177) (4, 183) (4, 200) (2,204)(1,206)(1,208)

**210:(8, 162) (8, 177) (4, 183) (4, 200) (2,204)(2,208)(1,210)**

2.

(1)

Cosine sim(u1,u2)

= u1.u2 = 2\*3-1\*3

/ |u1|\*|u2| = √3^2+(-1)^2 \*√2^2+(-1)^2+3^2

= 3/（√10\*√14 ）

= 0.2535

Cosine sim(u1,u3)

= u1.u3 = 3\*3 - 1\*1

/ |u1|\*|u2| = √3^2+(-1)^2 \*√3^2+(3)^2+1^2

= 8/ （√10\*√19 ）

= 0.5804

0.5804 > 0.2535

u3 has more similar taste with u1

(2)

R(u1,m2)

= {s(u1,u2)\*R(u2,m2)+s(u1,u3)\*R(u3,m2)}/ s(u1,u2)+s(u1,u3)

=0.2535\*-1+0/(0.2535+0.5804)

=-0.308

R(u1,m3)

= {s(u1,u2)\*R(u2,m3)+s(u1,u3)\*R(u3,m3)}/ s(u1,u2)+s(u1,u3)

=0.5804\*3/(0.2535+0.5804)

=2.113

R(u1,m2) < R(u1,m3)

So I would like to recommend m3.