//main

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//step0

InitialAndBulidGiftTable(AllTheInformations )

Main(AllTheInformations)

//step1

SortByMinSqureDistance(Occasion,Gifts[])

//step2

FilterWithPreferenceThreshold(Top20Gifts[],Features[])

//step3

FilterWithCommonSenseRelation(Occasion, Relationship, Inferior \_Gifts[])

FilterWithCommonSenseRelation(Occasion, Relationship, Better \_Gifts[])

//step4

FilterWithCommonSpreadingActivation(OtherInformations[],Inferior\_Gifts[])

FilterWithCommonSpreadingActivation(OtherInformations[],Better\_Gifts[])

//show result

Result = print Better\_Gifts[], then print Inferior\_Gifts[]

//step0

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InitialAndBulidGiftTable(AllTheInformations )

Occasion = Occasion that sender choose

Relationship = Relationship that sender choose

OtherInformations = AllTheInformations Occasion Relationship

Gifts[] = Different 60 common gifts

For each Gift in all Gifts

Fill in 8 value of the vector

For each occasion in all occasions

Fill in 8 value of the vector

Return Gifts[],Occasions[]

Ex:

Gift -> Book [ 1.0, 0.6, 0.2, 0.4, 1.0, 0.0, 0.0, 0.6]

Occasion->Valentine’s day [ 0.2, 1.0, 0.6, 0.2, 0.0, 1.0, 0.2, 0.2]

//step1

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SortByMinSqureDistance(Occasion,Gifts[])

For each gift in all gifts

=

Sort Gifts[] by

Top20Gifts [] = top 20 of Gifts[]

Return Top20Gifts []

//step2

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FilterWithPreferenceThreshold(Gifts[],Features[])

For each Gift in all Gifts[]

For each Feature in all the Features[] that Sender Choose

If <

Then this Gift append to Inferior\_Gifts[]

Else if >=

Then this Gift append to Better\_Gifts[]

//step3

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FilterWithCommonSenseRelation(Occasion, Relationship, Separate\_Gifts[])

For each Gift in all Separate\_Gifts[]

If is in top 20 //if they have strong relation

Else is not in top 20

//step4

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FilterWithCommonSpreadingActivation(OtherInformations[], Separate\_Gifts[])

For each Gift in all Separate\_Gifts[]

If 0.1 //if they have week relation

Else < 0.1

Sort Separate\_Gifts[] by