For which document classifier the training cost is low and testing is expensive?

A. for none
B. for kNN
C. for NB
D. for fasttext

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Given 3 users with ratings…

u1:	1	3
u2:	2	4
u3:	1	4

A. $Sim_{corr}(u1, u2) > Sim_{corr}(u1, u3)$

B. $Sim_{corr}(u1, u2) = Sim_{corr}(u1, u3)$

C. $Sim_{corr}(u1, u2) < Sim_{corr}(u1, u3)$

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Item-based collaborative filtering addresses better the cold-start problem because …

A. usually there are fewer items than users
B. it uses ratings from items with similar content
C. item similarities can be pre-computed
D. none of the above

For a user that has not done any ratings, which method can make a prediction?

A. User-based collaborative RS
B. Item-based collaborative RS
C. Content-based RS
D. None of the above

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For an item that has not received any ratings, which method can make a prediction?

A. User-based collaborative RS

B. Item-based collaborative RS

C. Content-based RS

D. None of the above

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Which of the following graph analysis techniques do you believe would be most appropriate to identify communities on a social graph?

A. Cliques
B. Random Walks
C. Shortest Paths
D. Association rules

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Modularity clustering will end up always with a single community at the top level?

A. true
B. Only for dense graphs
C. Only for connected graphs
D. never

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Modularity clustering will end up always with the same community structure?

A. true
B. Only for connected graphs
C. Only for cliques
D. false

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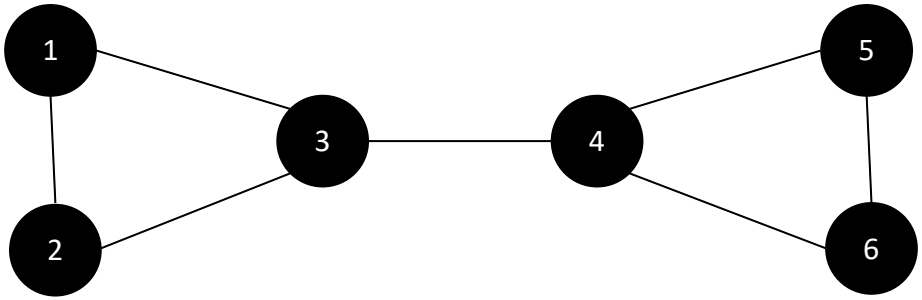
$\sigma_{xy}(v)$ of edge 3-4 is …

A. 16

B. 12

C. 9

D. 4



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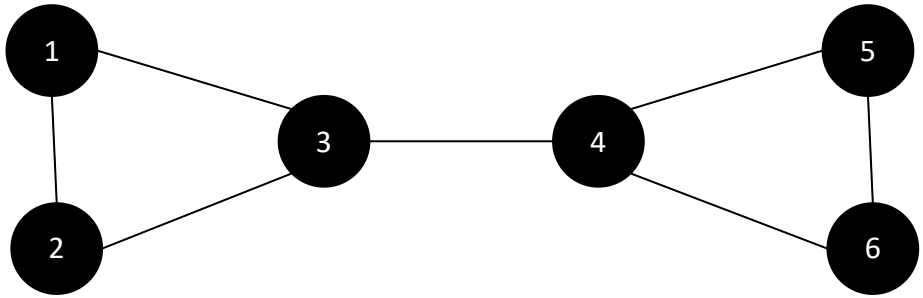
When computing path counts for node 1 with BFS, the count at 6 is …

A. 1

B. 2

C. 3

D. 4



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