


Question **3**

Not yet  
answered

Marked out of  
2.00

 Flag question

Care este numărul maxim de arce într-un graf neorientat, aciclic cu 5 noduri?

Answer:  $N-1=4$

[Previous page](#)

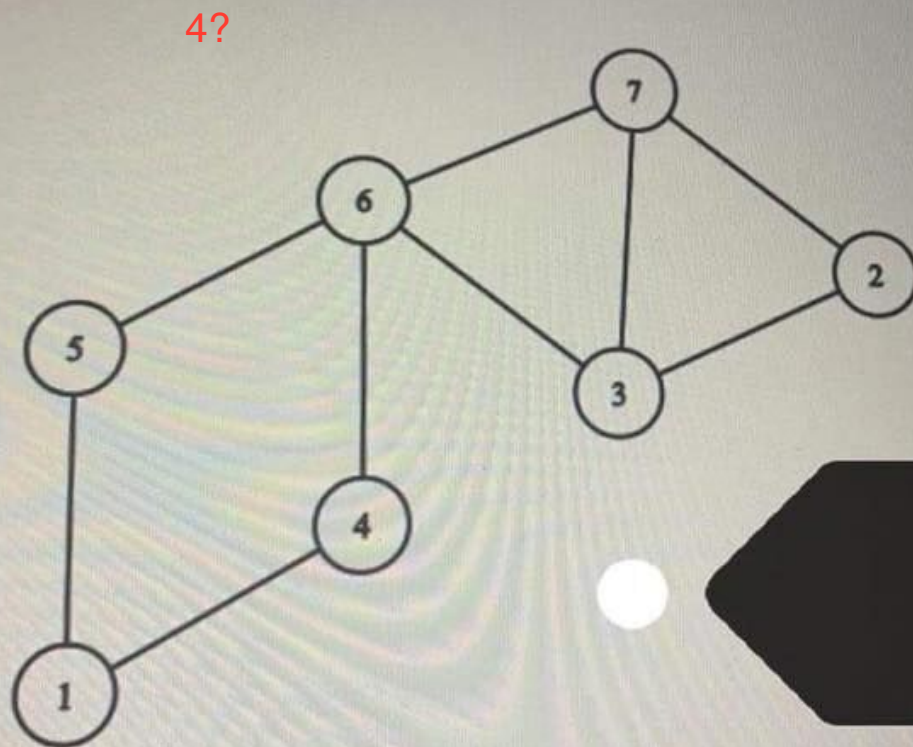
Question 5

Not yet  
answered

Marked out of

1.00  
Flag question

Care este gradul graful din imagine?



4

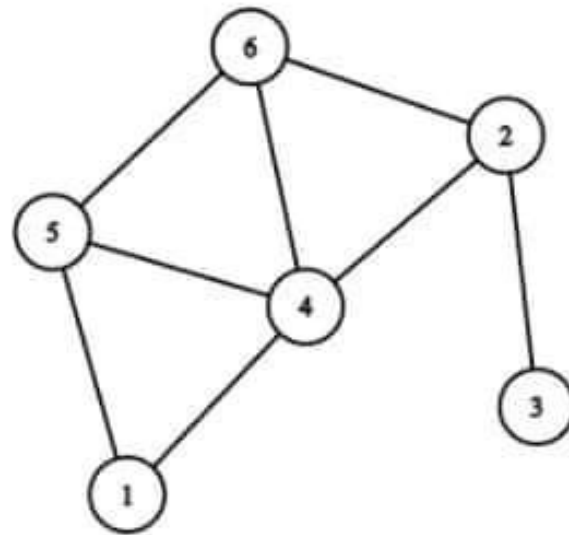
Question 4

Answer saved

Marked out of  
2.00

Flag  
question

Scrieți nodurile, separate prin virgulă, rezultate după aplicarea unei parcurgeri în adâncime a grafului din imagine, pornind de la nodul 2 (nodurile adiacente vor fi parcurse în ordine crescătoare).



2,3,4,1,5,6

Answer: 2,3,4,1,5,6

Care este numărul maxim posibil de arce într-un graf neorientat, bipartit cu 13 noduri?

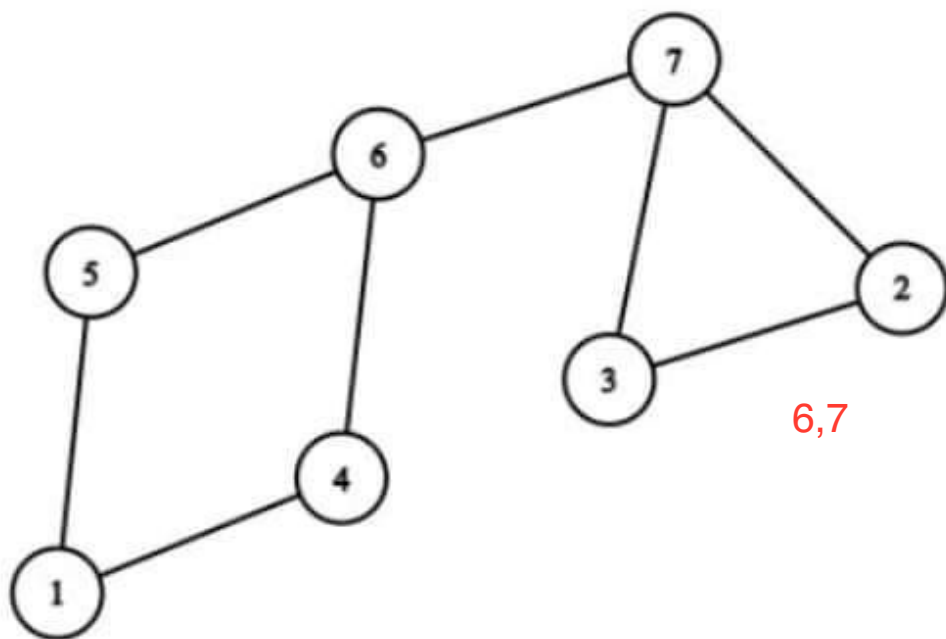
Answer:

42

42

13  
↙ ↘  
6 · 7 = 42

Scrieți nodurile care reprezintă puncte de articulație (ordonate crescător și separate prin virgulă) pentru graful din imagine.



6,7

Answer:



Question **2**

Answer saved

Marked out of  
2.00

Flag  
question

Câte arce are un graf neorientat complet cu 4 noduri?

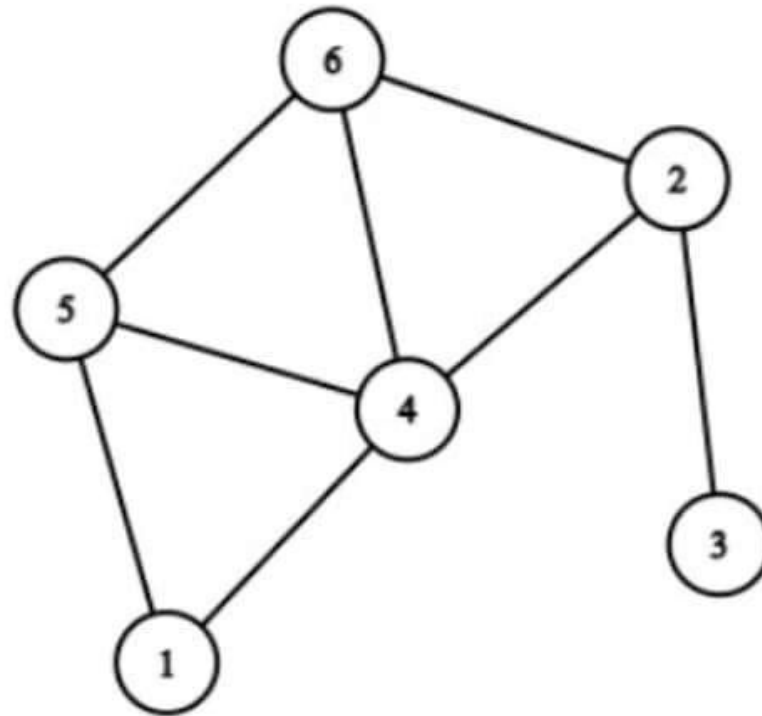
Answer:

$$N(N-1)/2=6$$

Previous page

Next page

Care este gradul grafului din imagine?



4?

Ar trebui totusi sa fie mai specifica intrebarea

4

Answer:

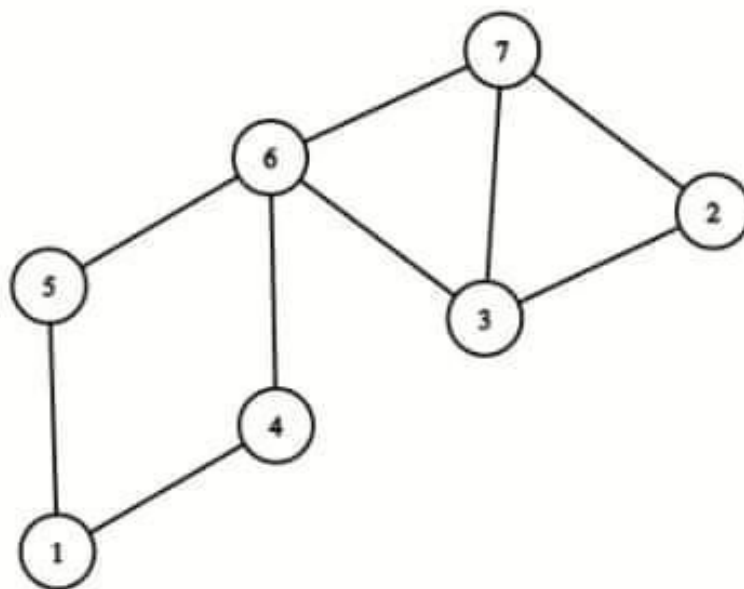
Question 3

Answer saved

Marked out of 2.00

Flag question

Scrieți nodurile care reprezintă puncte de articulație (ordonate crescător și separate prin virgulă) pentru graful din imagine.

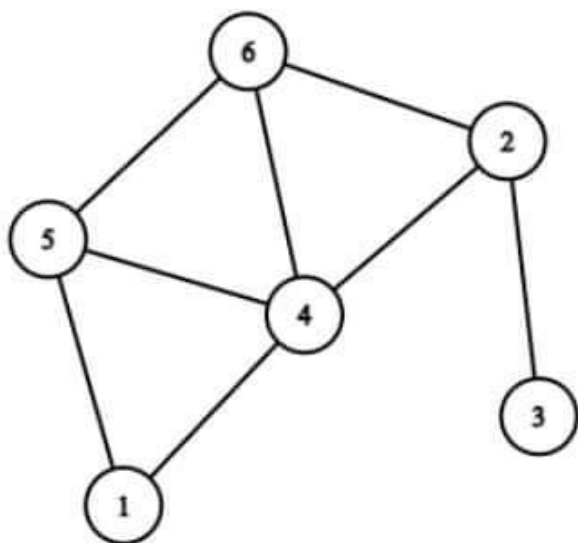


6

Answer: 6



Scrieți nodurile, separate prin virgulă, rezultate după aplicarea unei parcurgeri în adâncime a grafului din imagine, pornind de la nodul 6 (nodurile adiacente vor fi parcurse în ordine crescătoare).



6,2,3,4,1,5

Answer:

6,2,3,4,1,5

or

on 3

ed

out of

question

Care este numărul de arce dintr-un graf conex, aciclic cu 13 noduri?

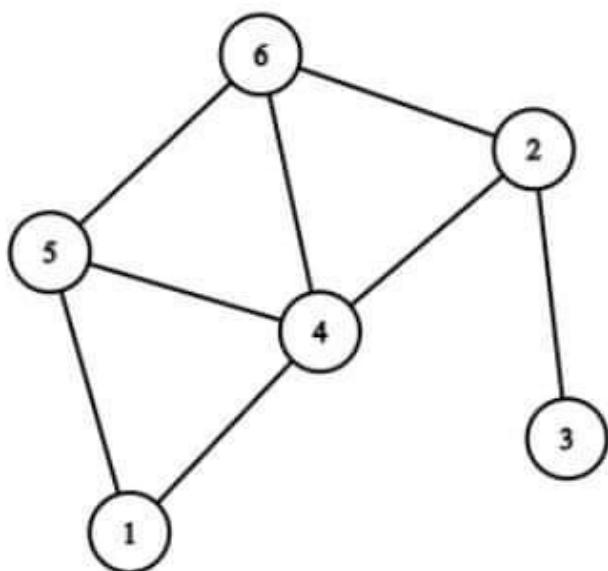
Answer:  $N-1=12$



12

s page

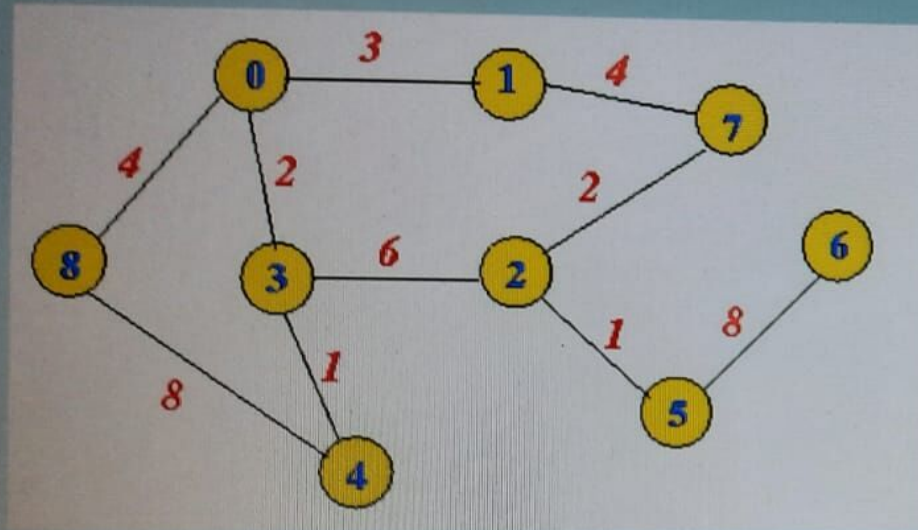
Scrieți nodurile, separate prin virgulă, rezultate după aplicarea unei parcurgeri în adâncime a grafului din imagine, pornind de la nodul 2 (nodurile adiacente vor fi parcurse în ordine crescătoare).



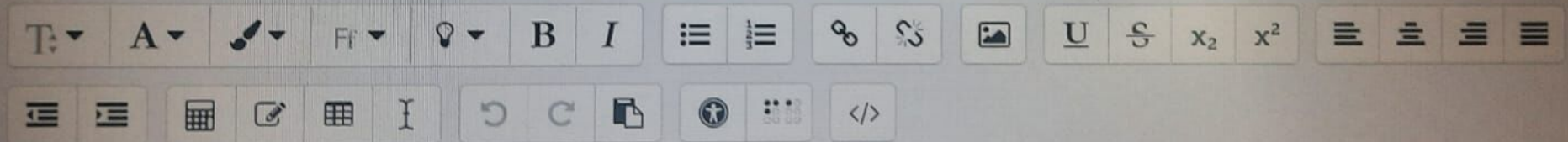
2,3,4,1,5,6

2,3,4,1,5,6

Given the graph in the figure below, write, in order, the edges added to the MST by applying **Prim's algorithm**.

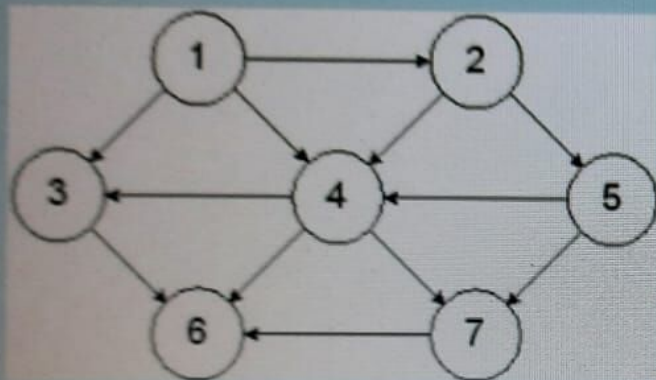


0-3-->2 {0,3}  
 3-4-->1 {0,3,4}  
 0-8-->4 {0,3,4,8}  
 0-1-->3 {0,3,4,8,1}  
 1-7-->4 {0,3,4,8,1,7}  
 7-2-->2 {0,3,4,8,1,7,2}  
 2-5-->1 {0,3,4,8,1,7,2,5}  
 5-6-->8 {0,3,4,8,1,7,2,5,6}





Consider the graph in the figure below. Write the order that **Breadth-First-Search** would explore the nodes **starting from node 1**. Always explore nodes with smaller labels when given the choice. (explore 2 before 4 when you have the choice). Write down: the order in which nodes get visited, and the set of edges which form the BFS-spanning tree.



1,2,3,4,5,6,7



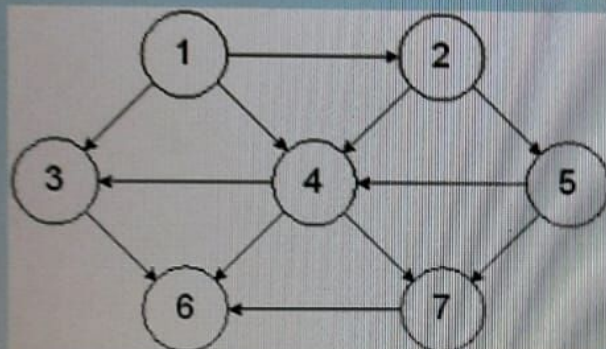
Question 8

Not yet answered

Marked out of 1.00

Flag question

Consider the graph in the figure below. Write the order that **Depth-First-Search** would explore the nodes **starting from node 1**. Always explore nodes with smaller labels when given the choice. (explore 2 before 3 when you have the choice). Write down: the order in which nodes get visited, and the set of edges which form the DFS-spanning tree.



1,2,4,3,6,5,7

Rich text editor toolbar with various icons for text formatting, alignment, and insertion.



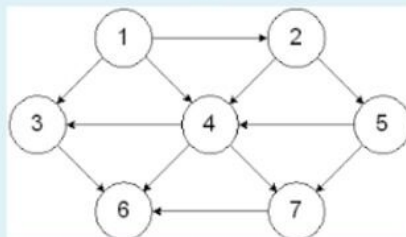


## Quiz navigation

[Finish attempt ...](#)Time left **0:24:56**Question **4**Not yet  
answeredMarked out of  
1.00

Flag question

Consider the graph in the figure below. Write the order that **Depth-First-Search** would explore the nodes **starting from node 1**. Always explore nodes with smaller labels when given the choice. (explore 2 before 3 when you have the choice). Write down: the order in which nodes get visited, and the set of edges which form the DFS-spanning tree.

**1,2,4,3,6,5,7**

1-&gt;2-&gt;4