**Raj Oli**

**BSc. Hons Computing,  Softwarica College of IT and E-commerce**

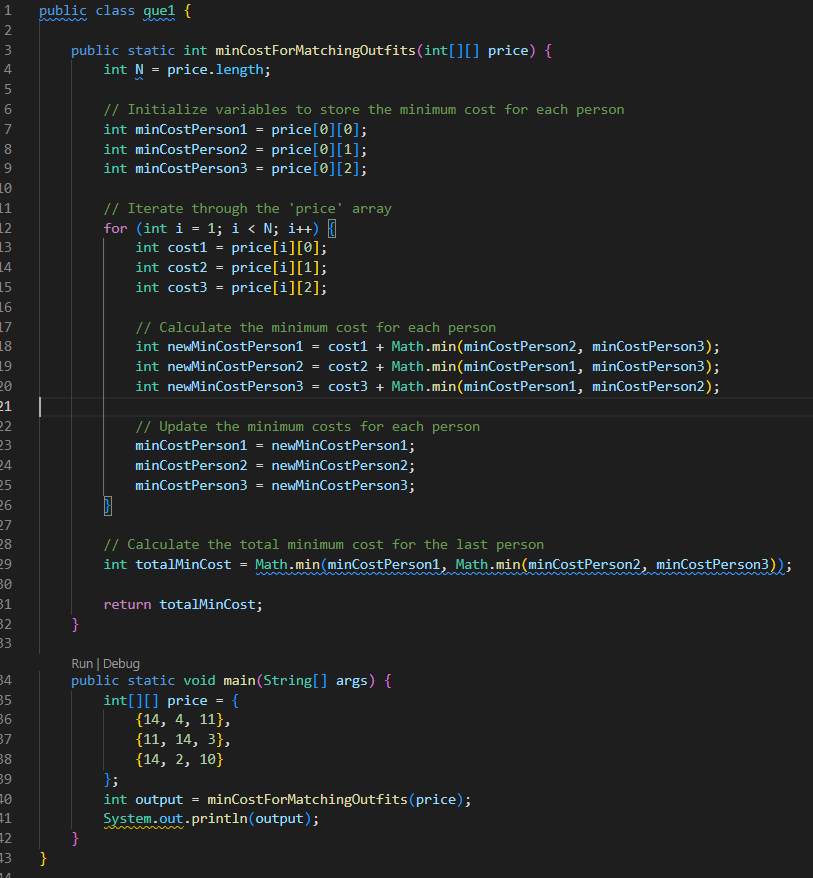
**ST5008CEM Programming for Developers**

**Hikmat Saud**

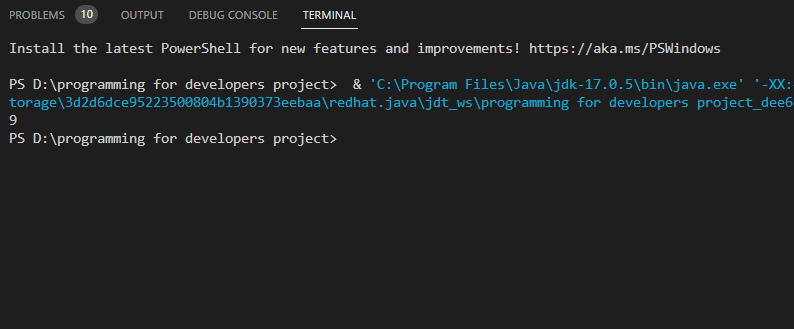
**11 August,2023**

**# Question Number : 1 “a”**

**Code;**

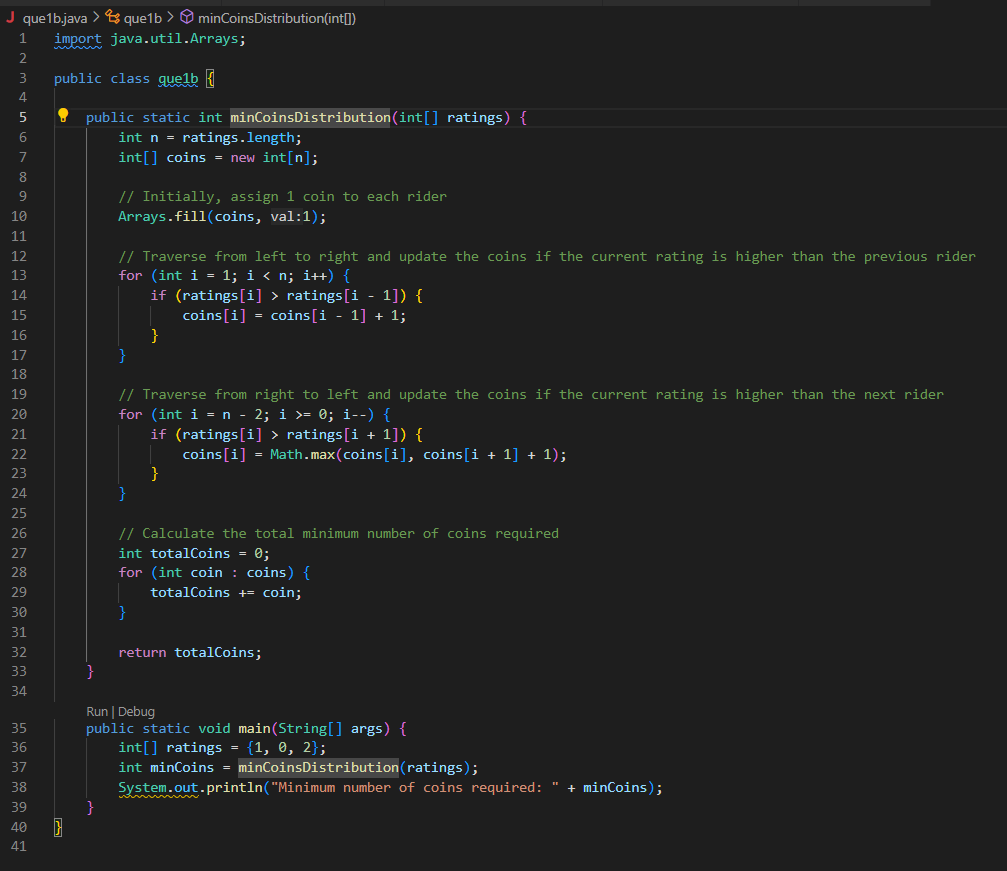


**Output : 1 ”a”**

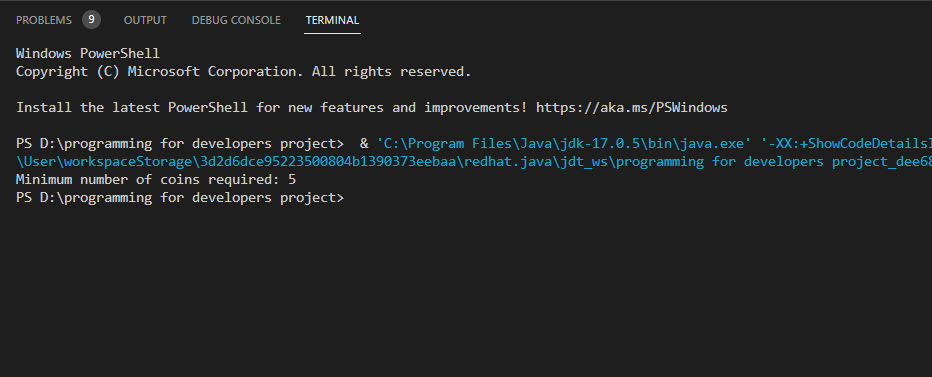


**# Question Number : 1 “b”**

**Code;**

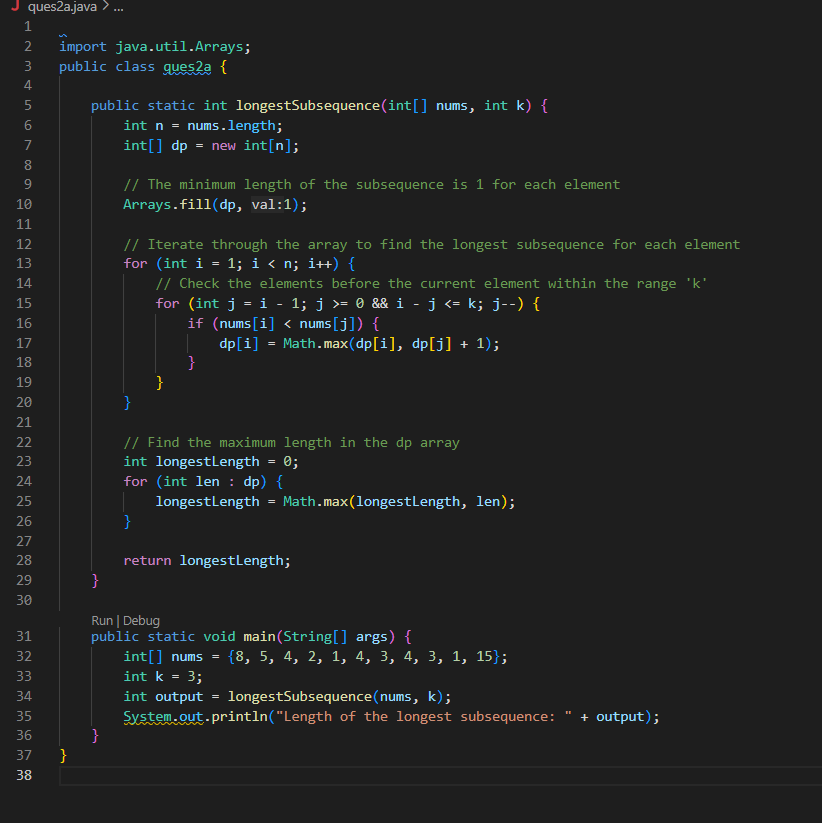


**Output : 1 ”b”**

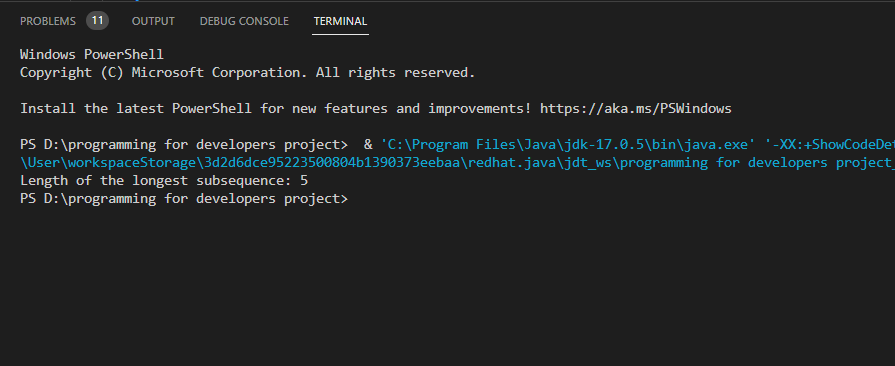


**# Question Number : 2 ”a”**

**Code;**

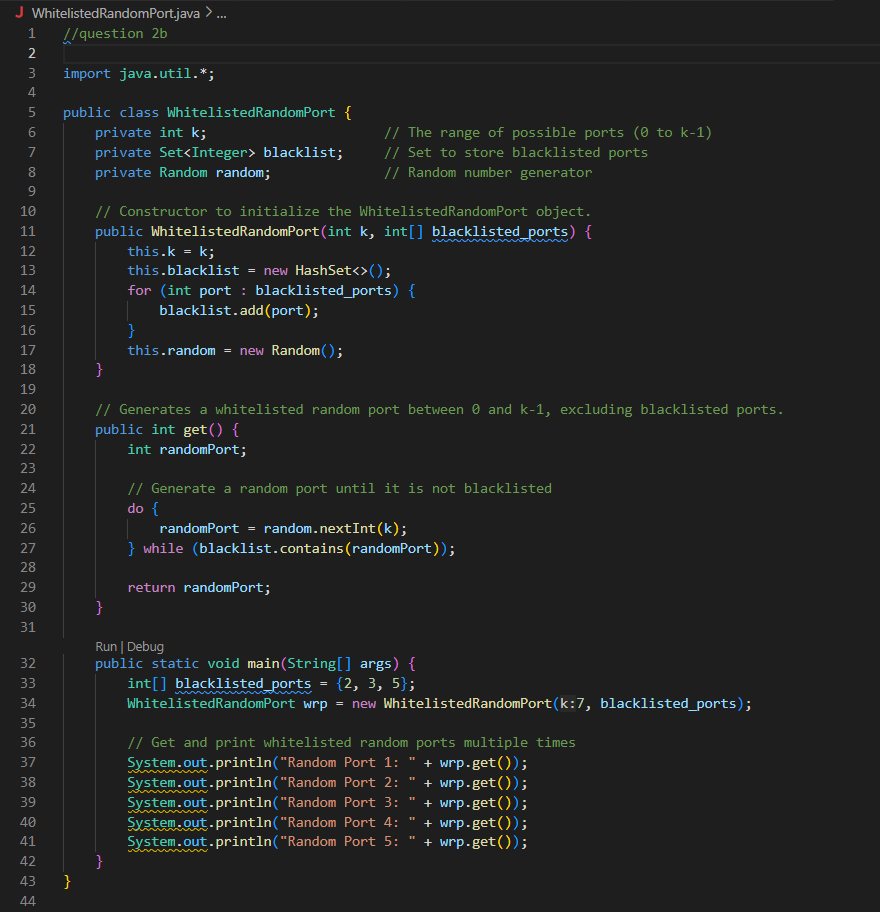


**Output : 2 “a”**

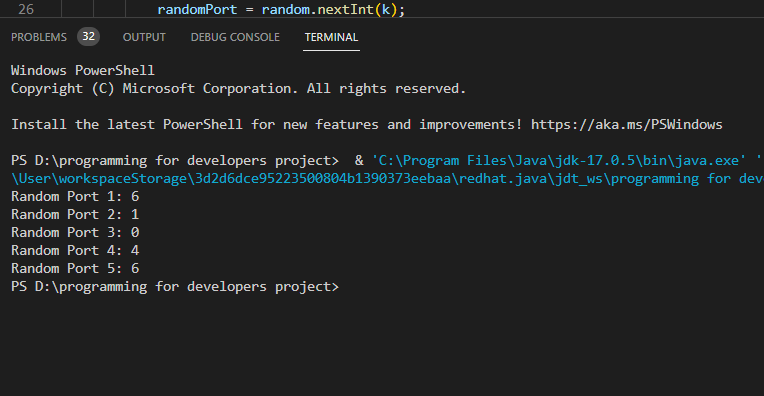


**# Question Number : 2 ”b”**

**Code;**

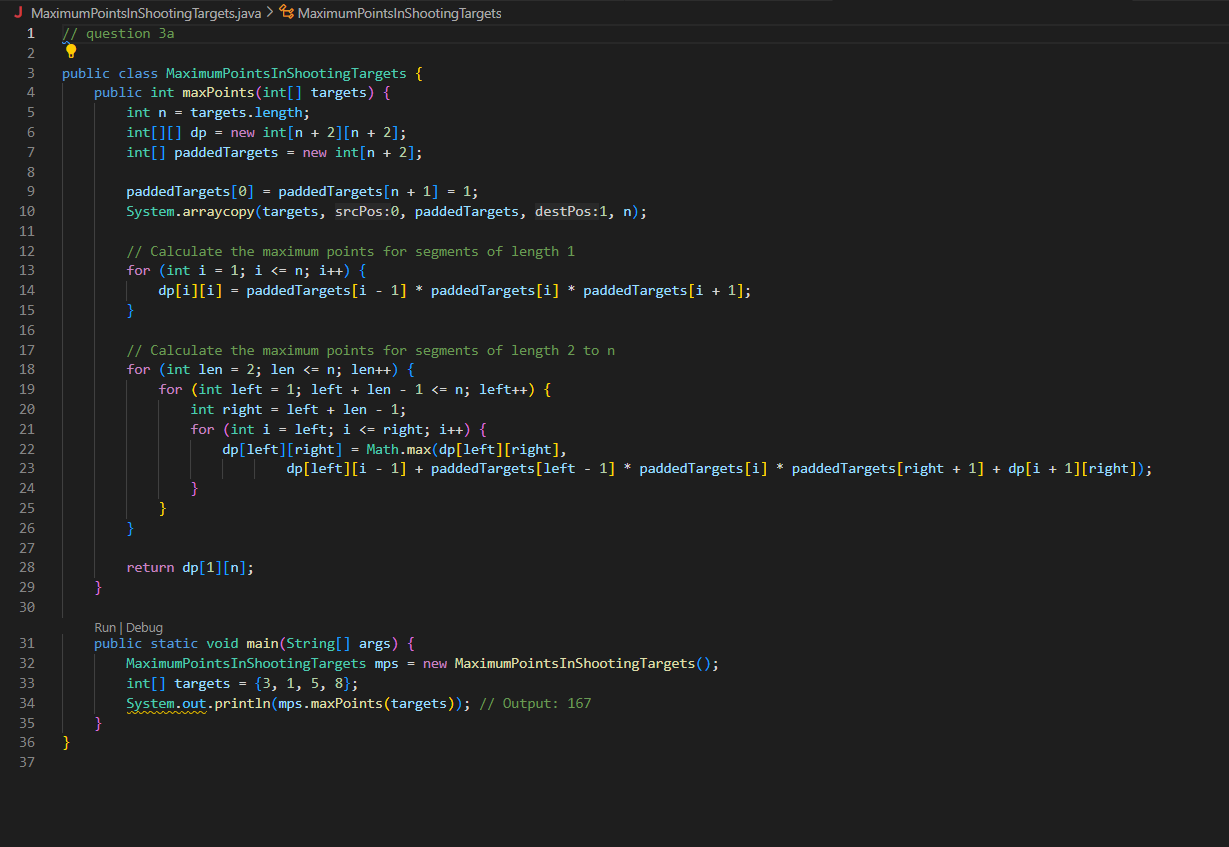


**Output : 2 “b”**

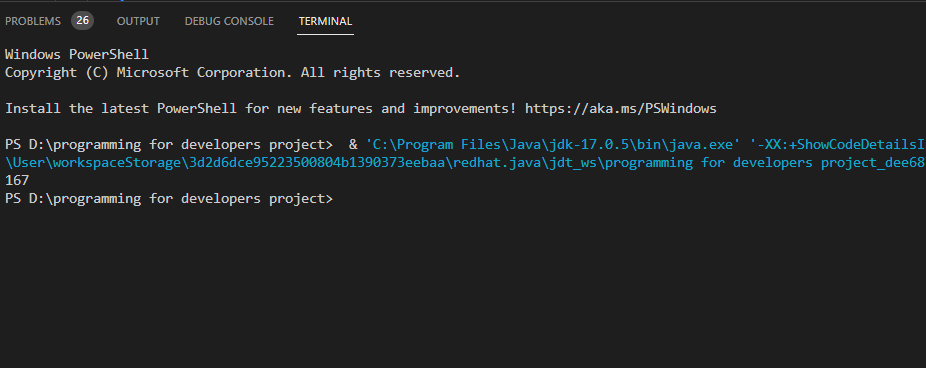


**# Question Number : 3 ”a”**

**Code;**

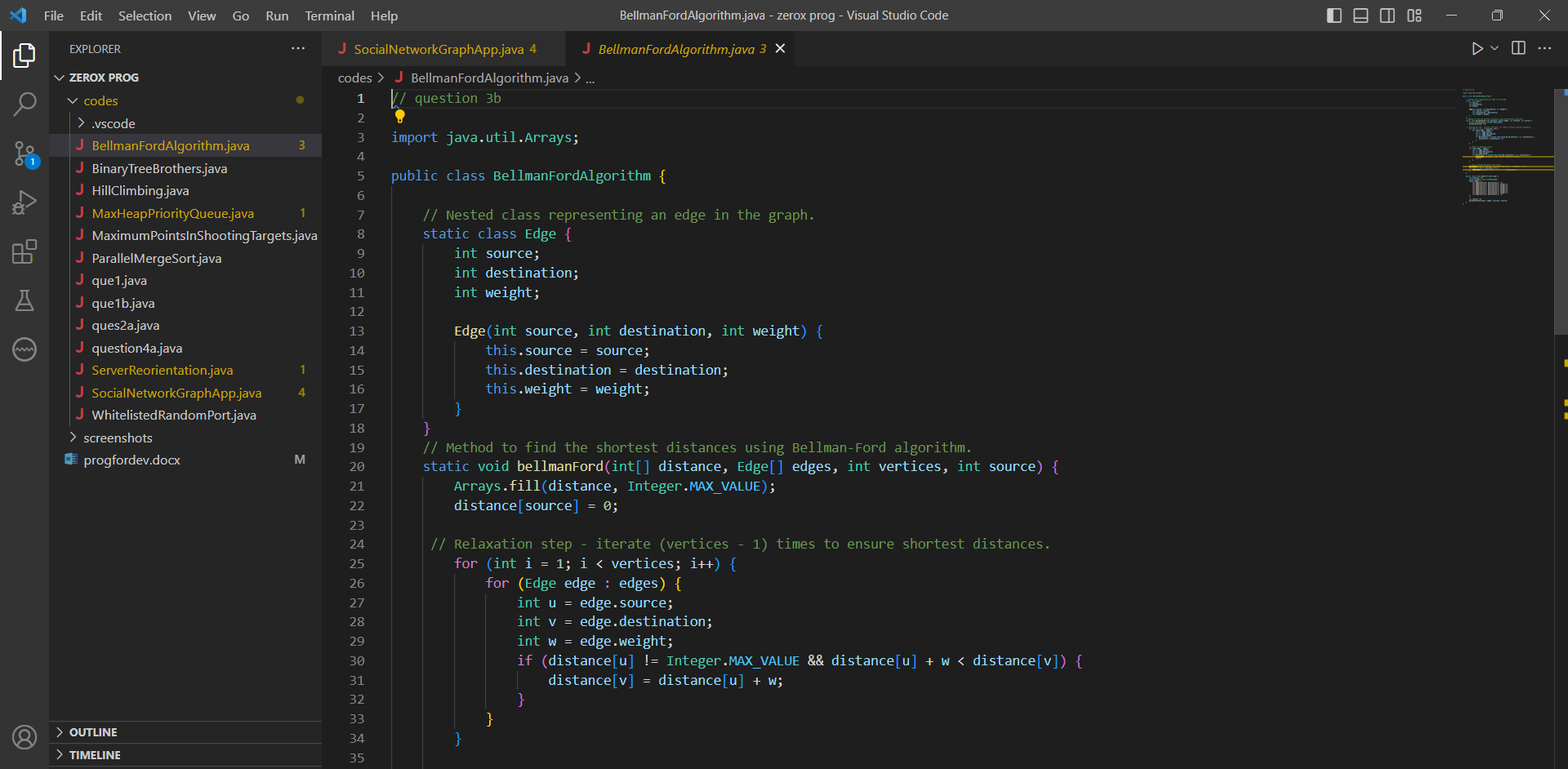


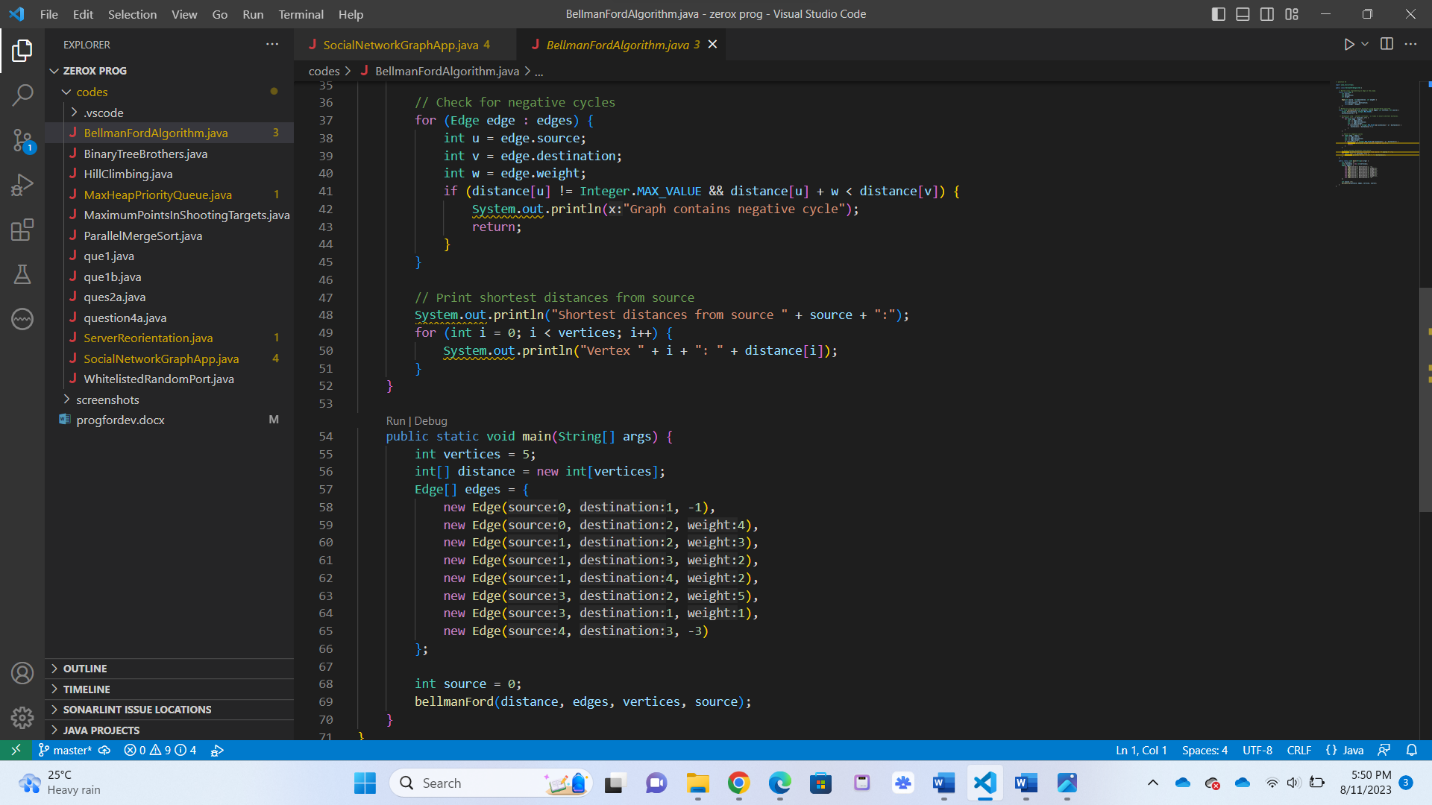
**Output : 3 “a”**



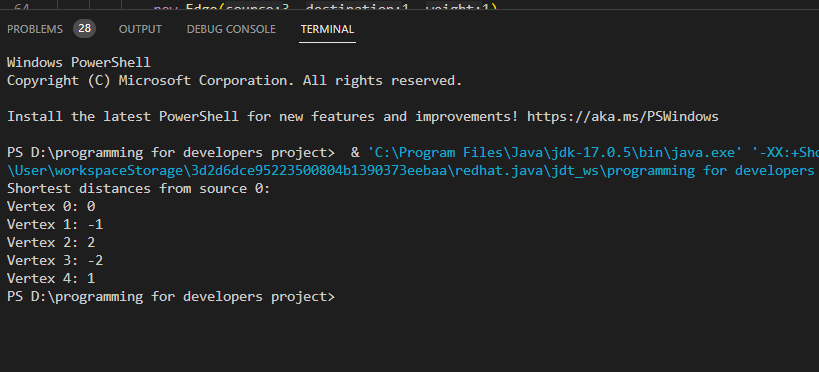
**# Question Number : 3 ”b” bellman**

**Code**

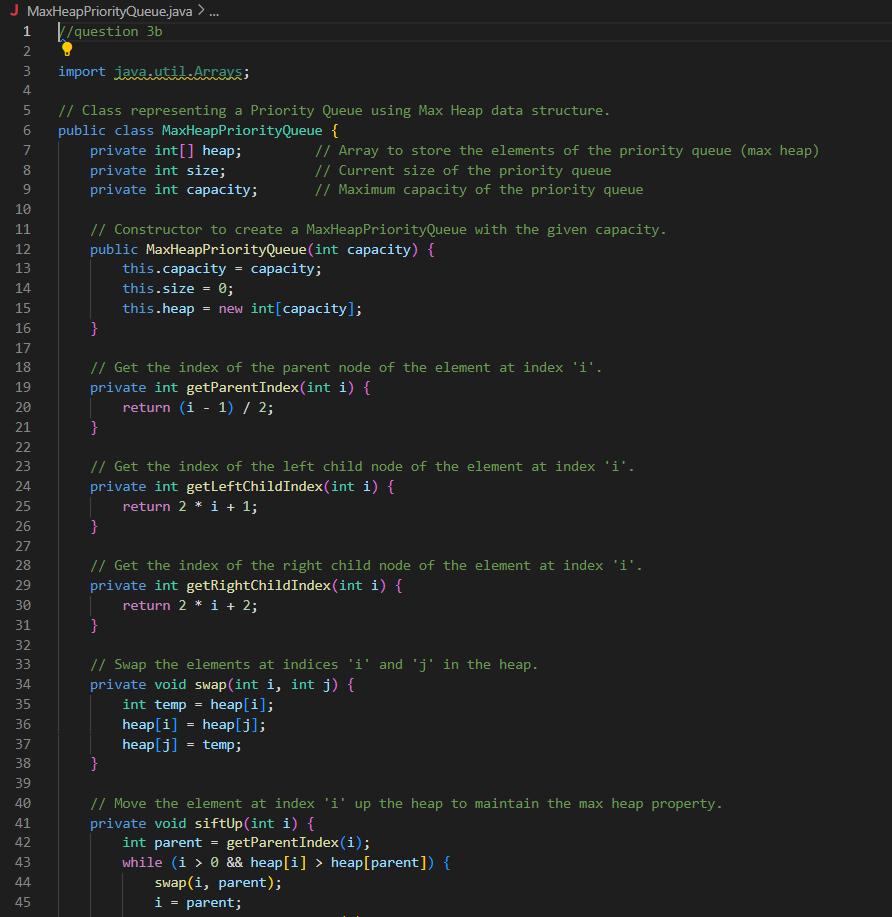


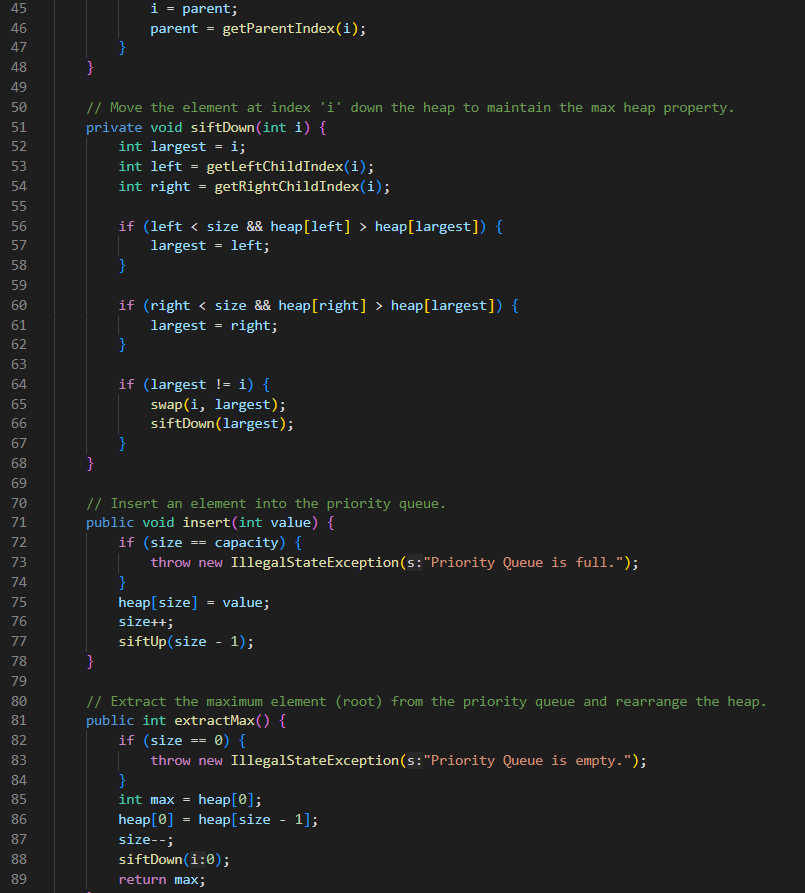


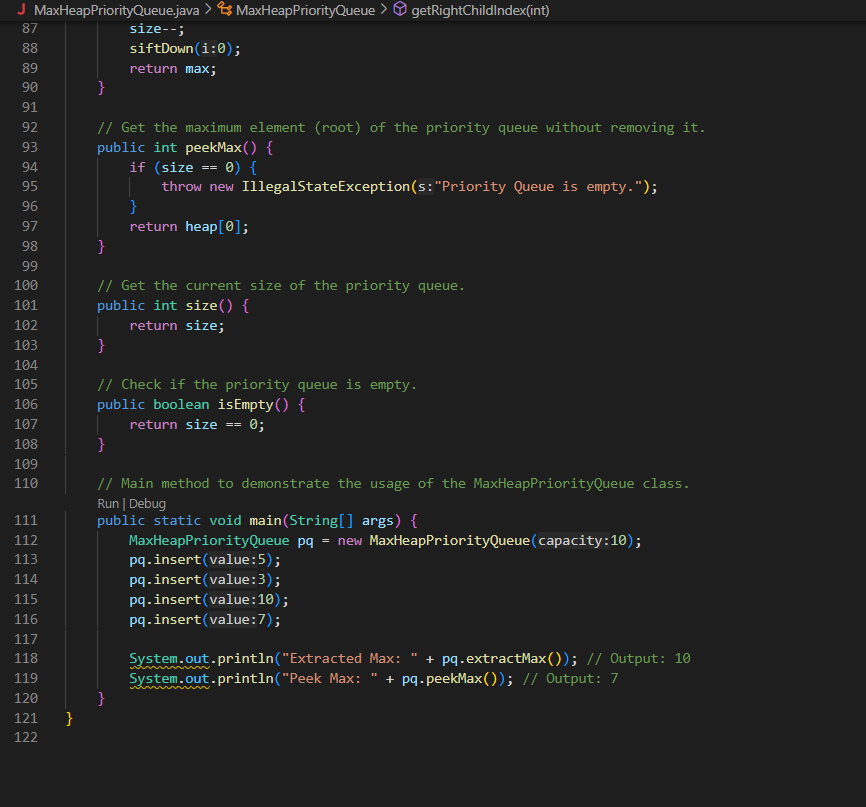
**Output : 3 ”b” bellman**



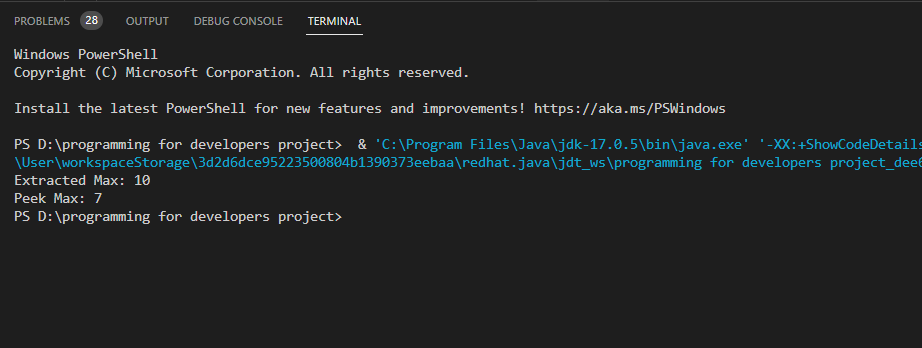
**Code: 3b “Max heap priority queue”**





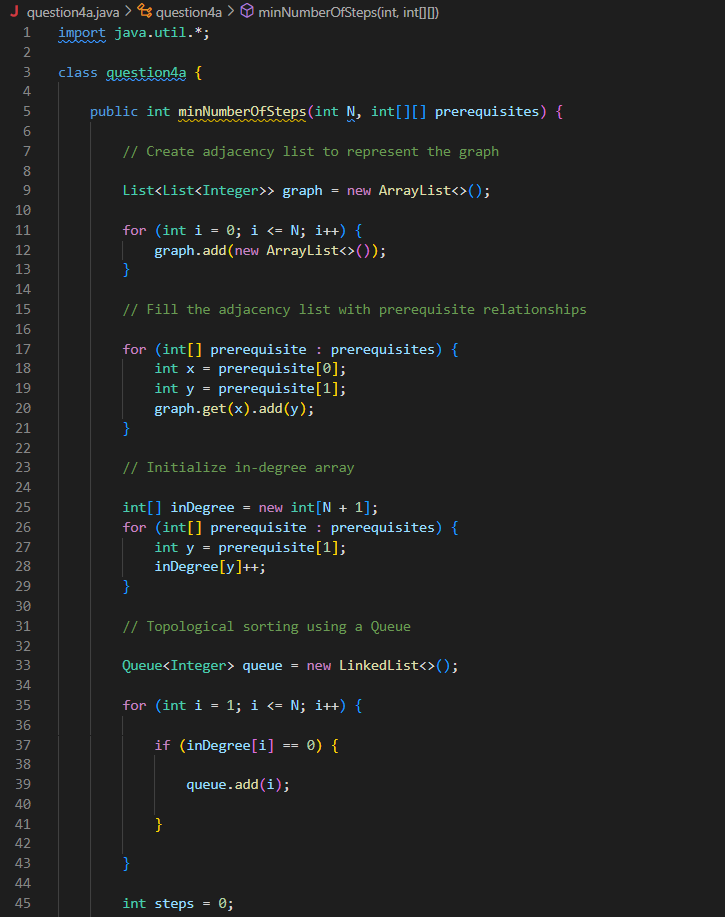


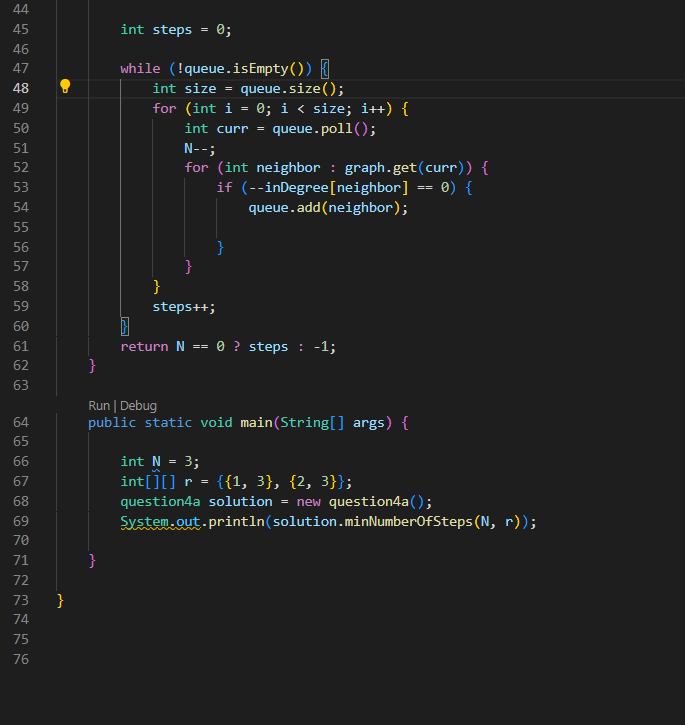
**Output; 3.b “MaxHeapPriorityQueue”**



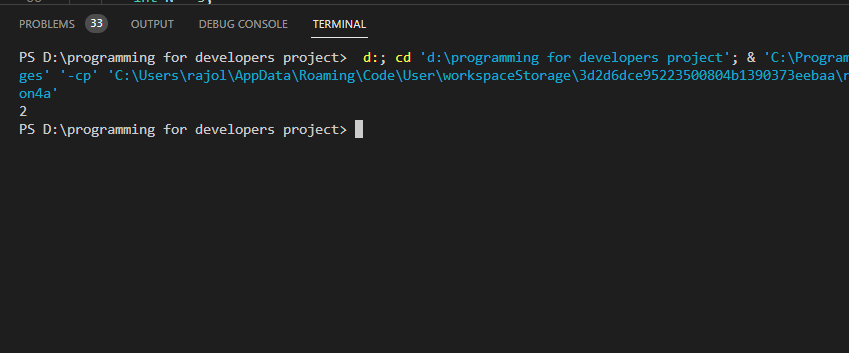
**# Question 4 “a”**

**Code;**



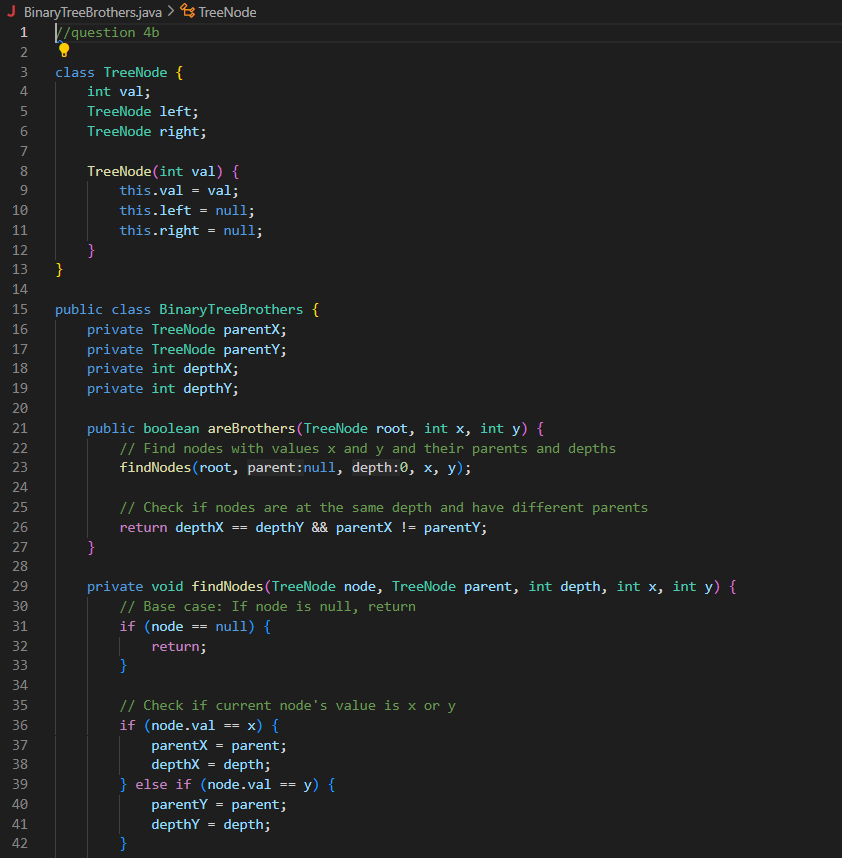


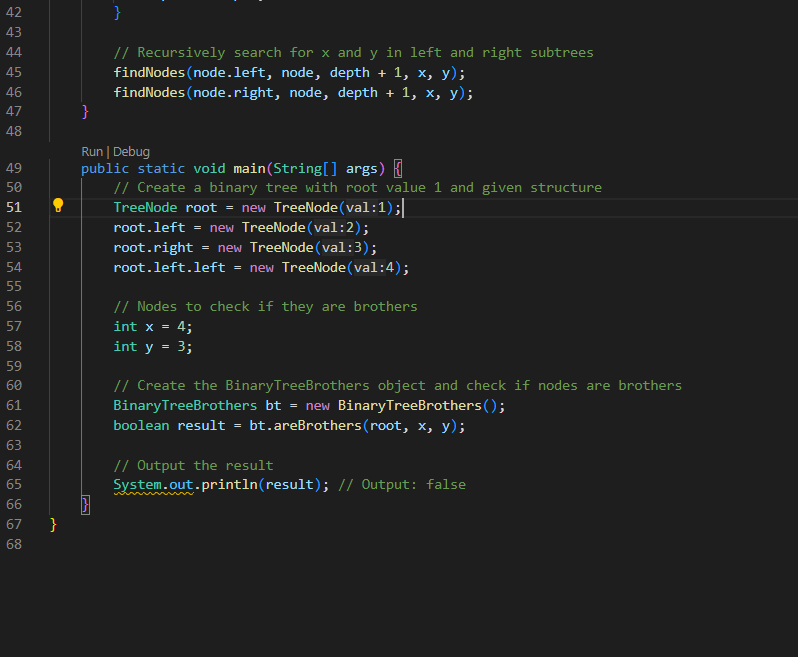
**Output : 4 “a”**



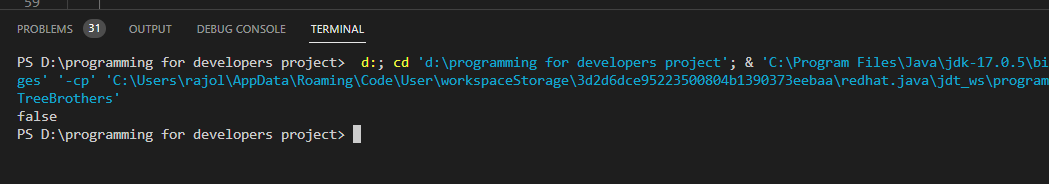
**# Question 4 “b”**

**Code;**



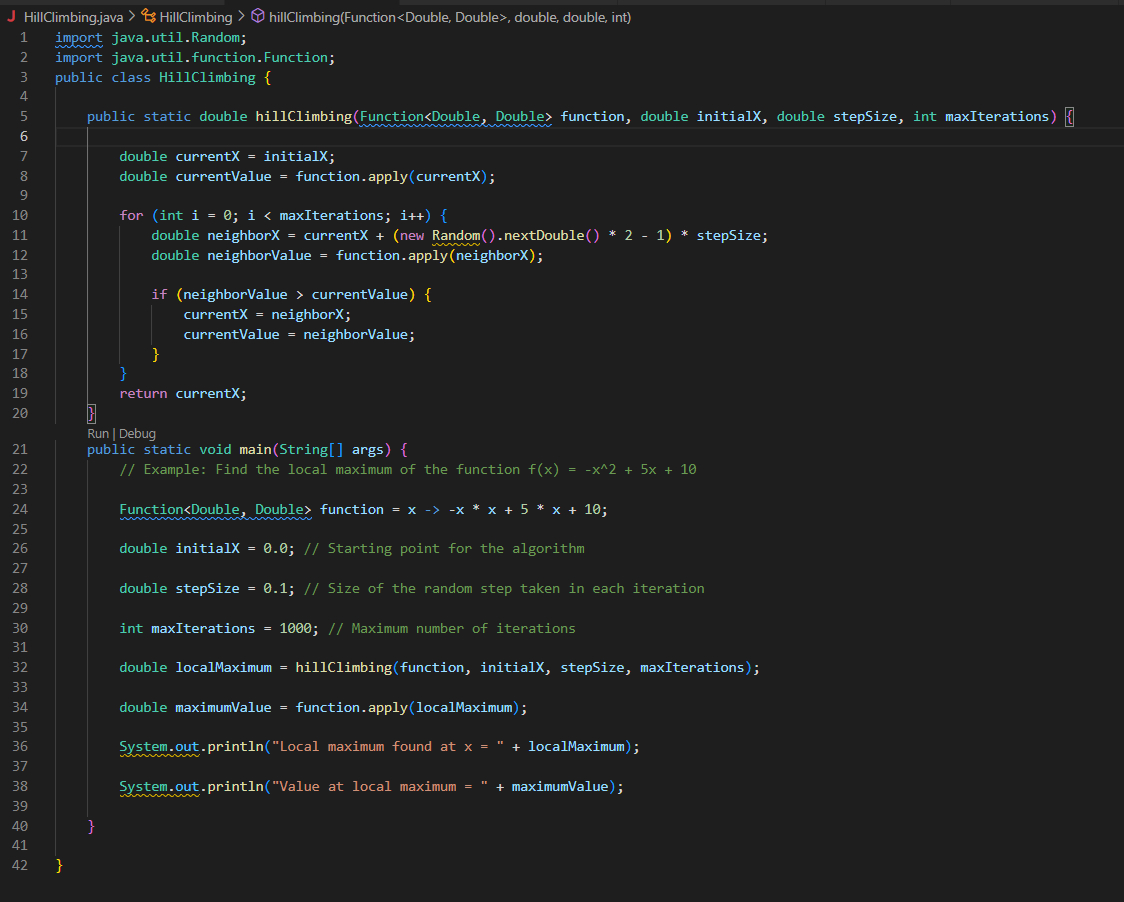


**Output : 4 “b”**

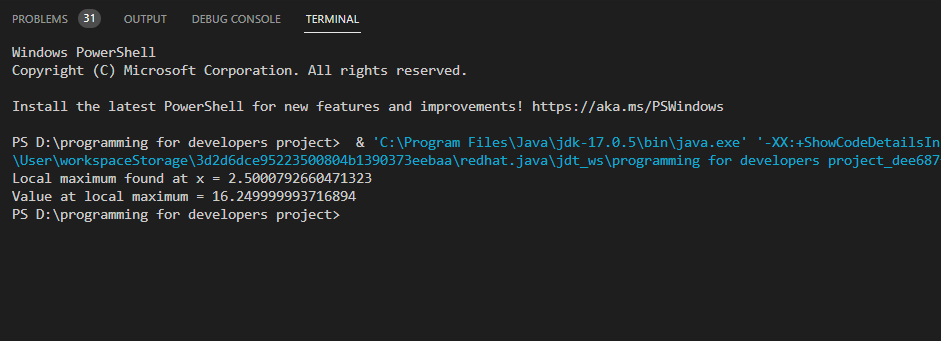


**# Question 5 : “a”**

**Code;**

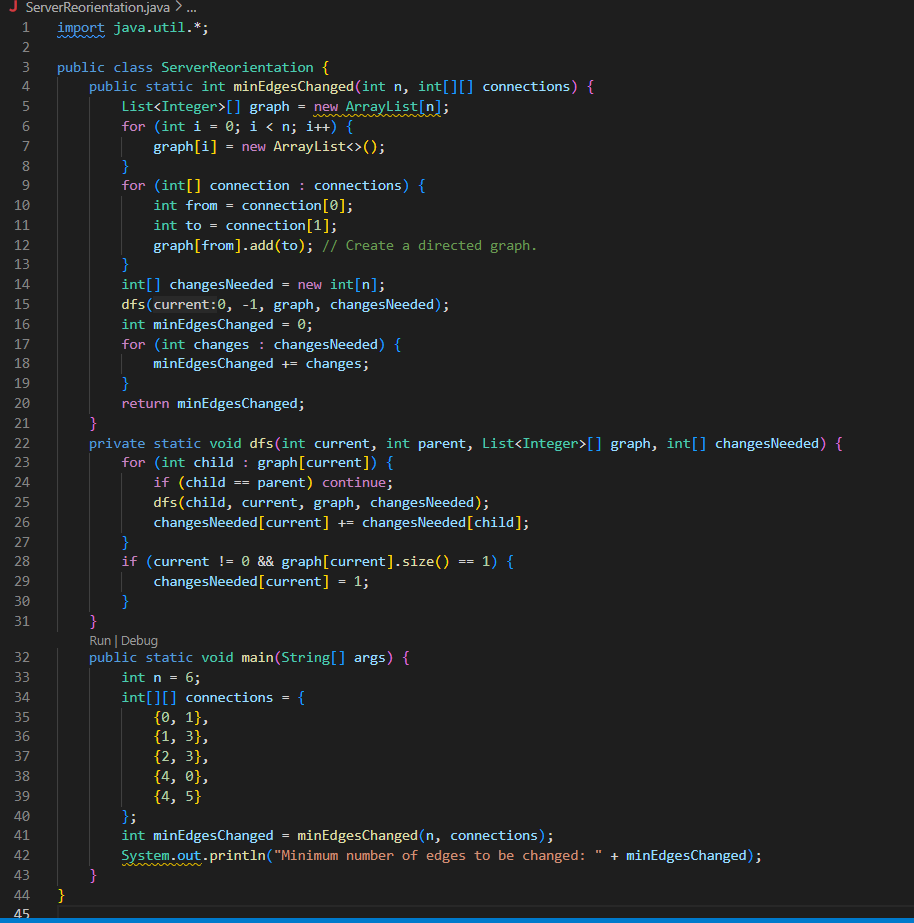


**Output : 5 ”a”**

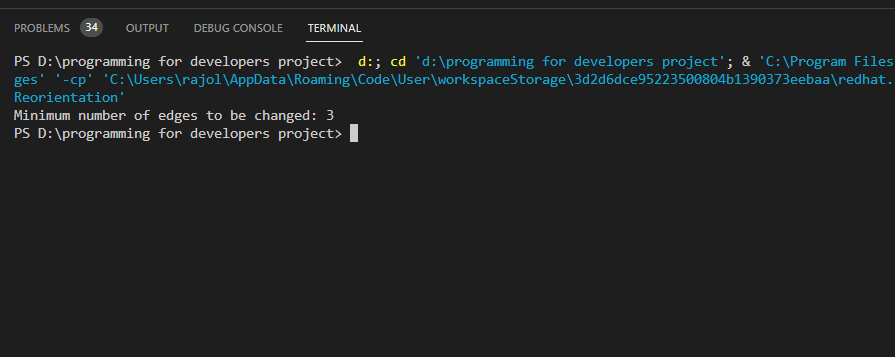


**# Question 5 : “b”**

**Code;**



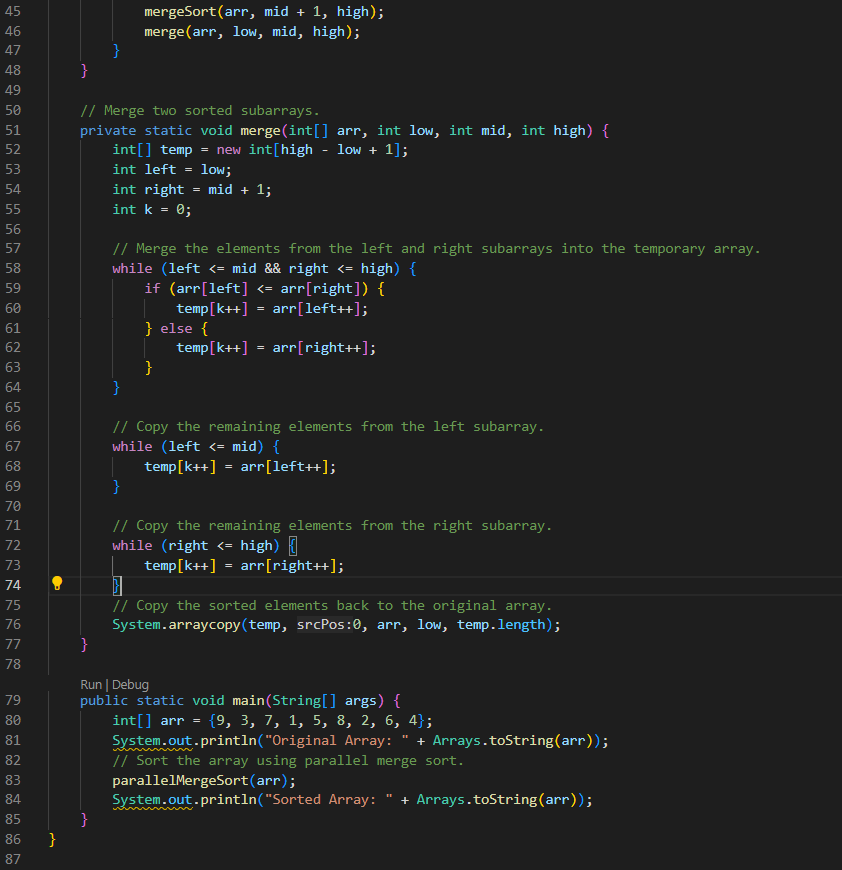
**Output : 5 ”b”**



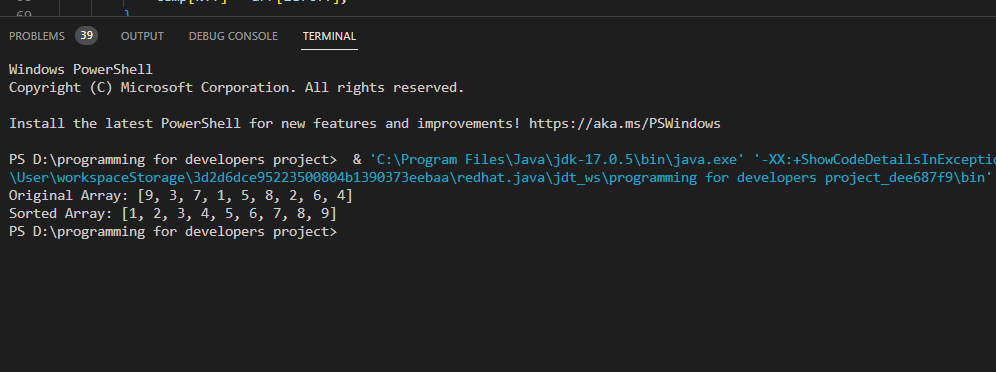
**# Question 6**

**Code;**



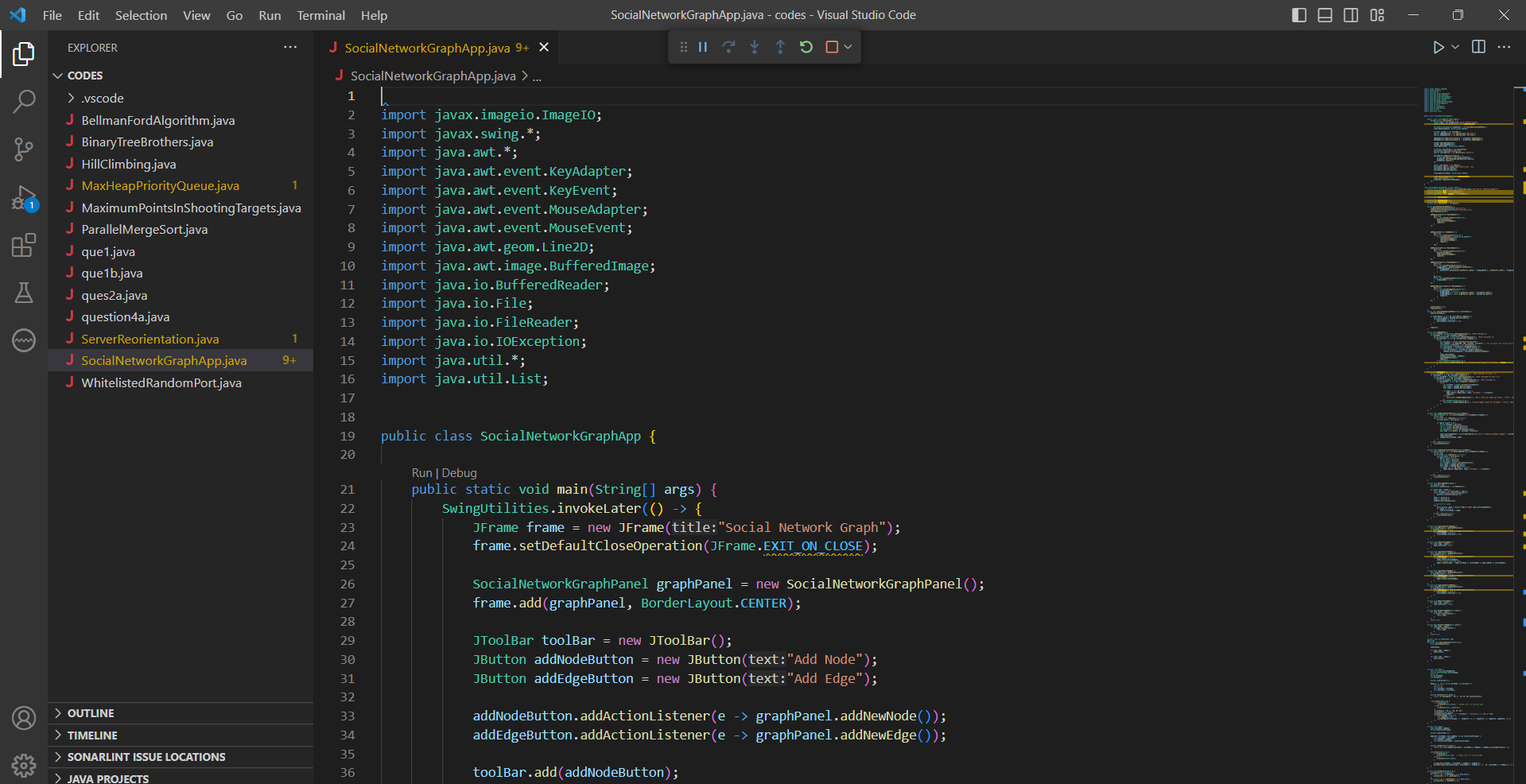


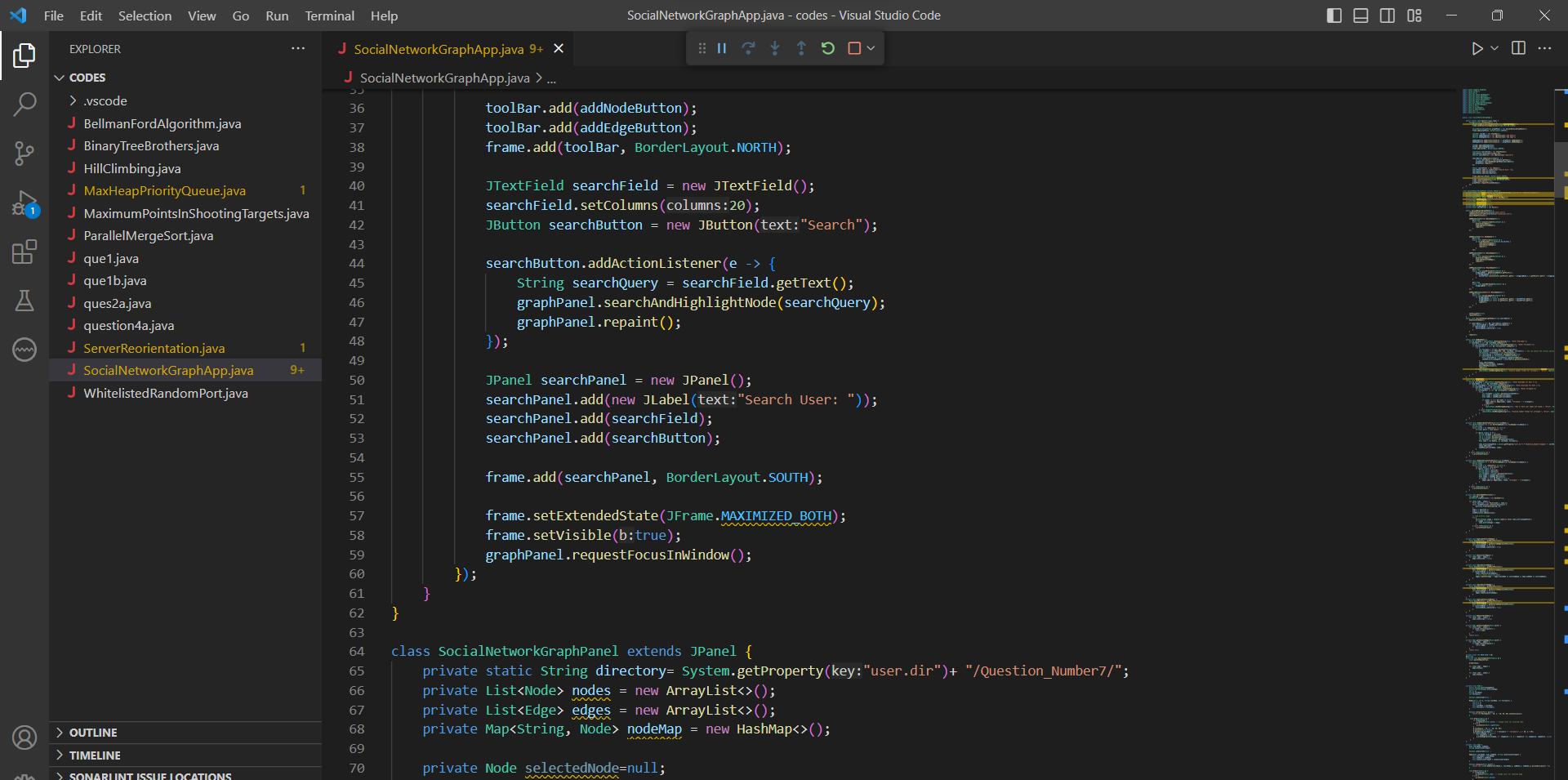
**Output : 6**

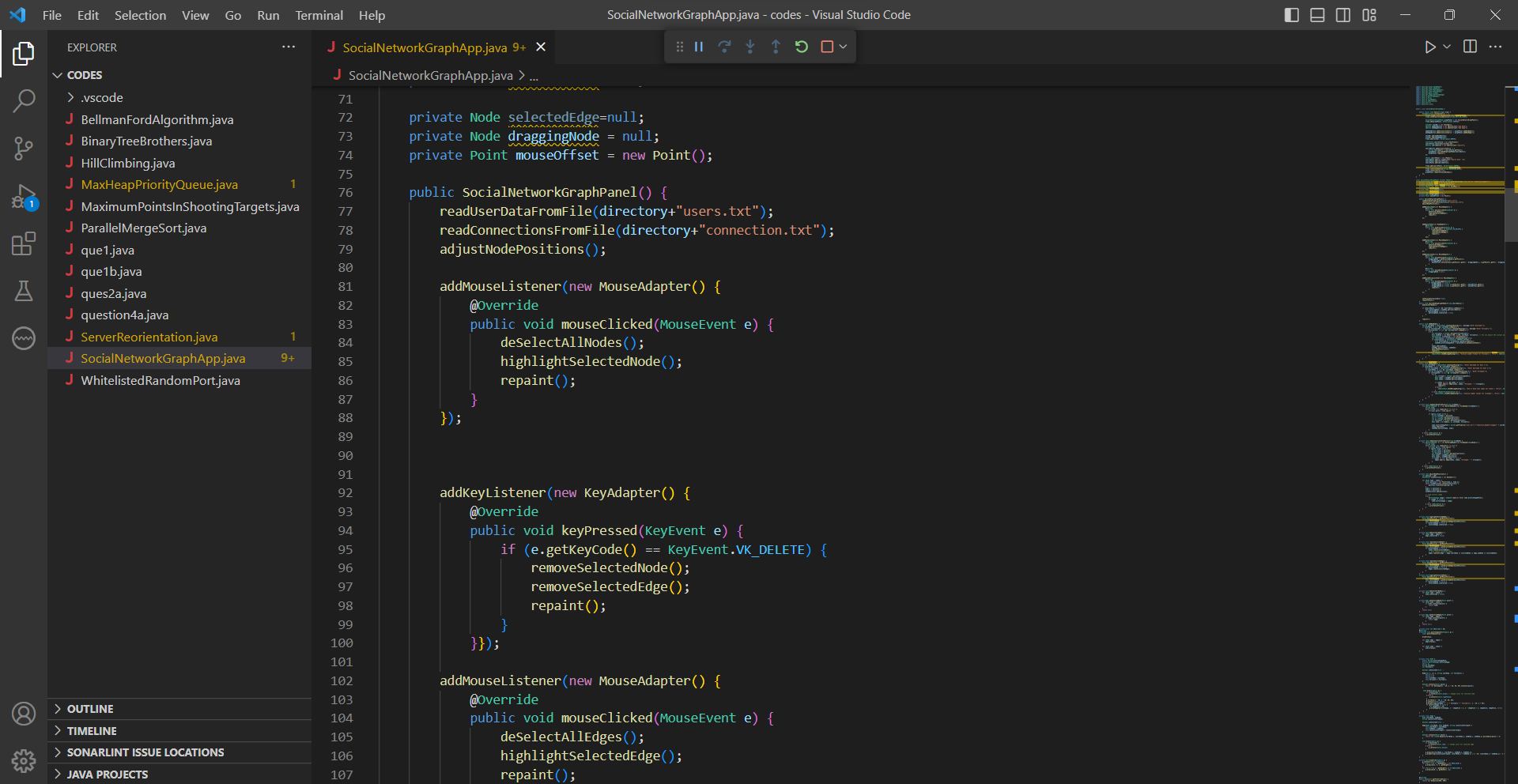


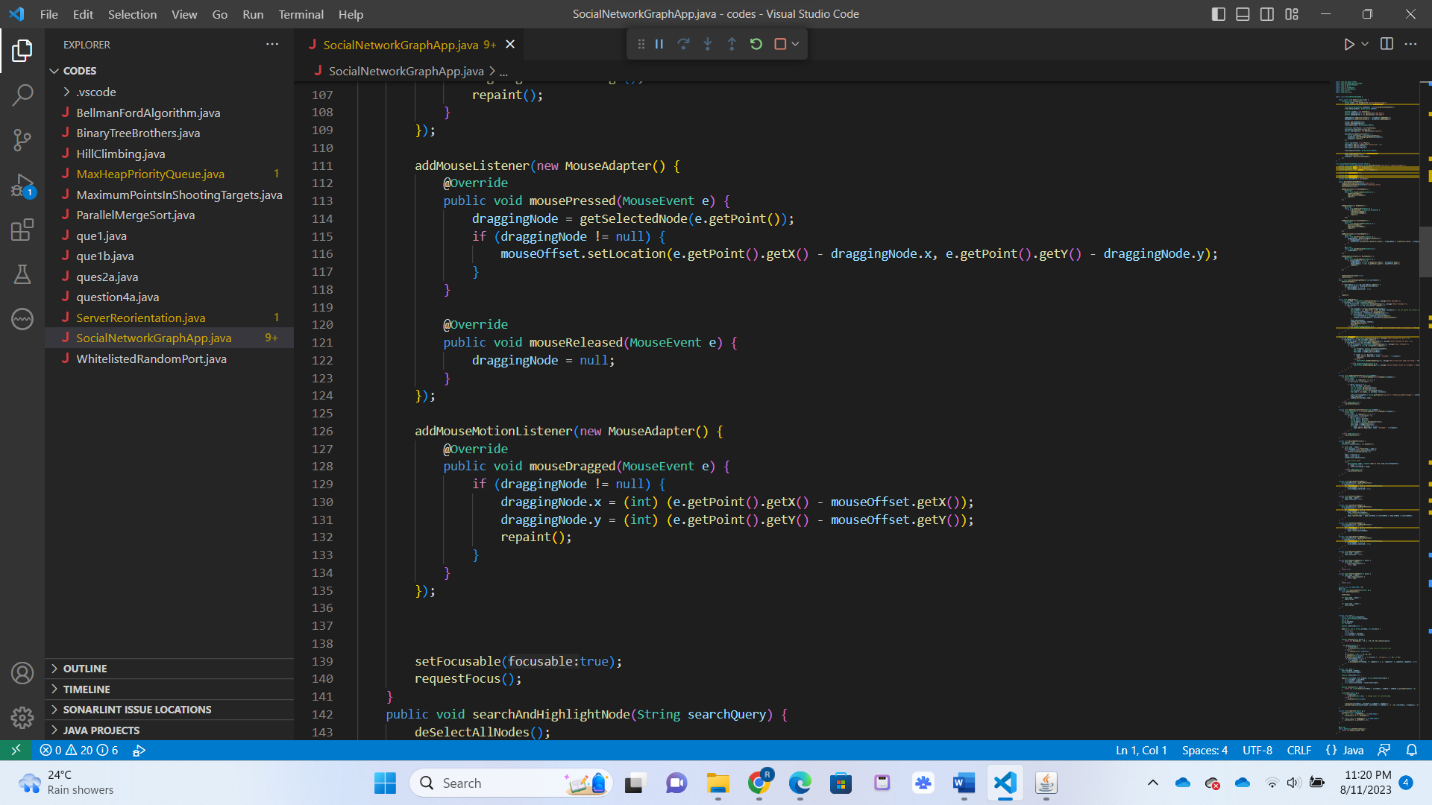
**#Question 7**

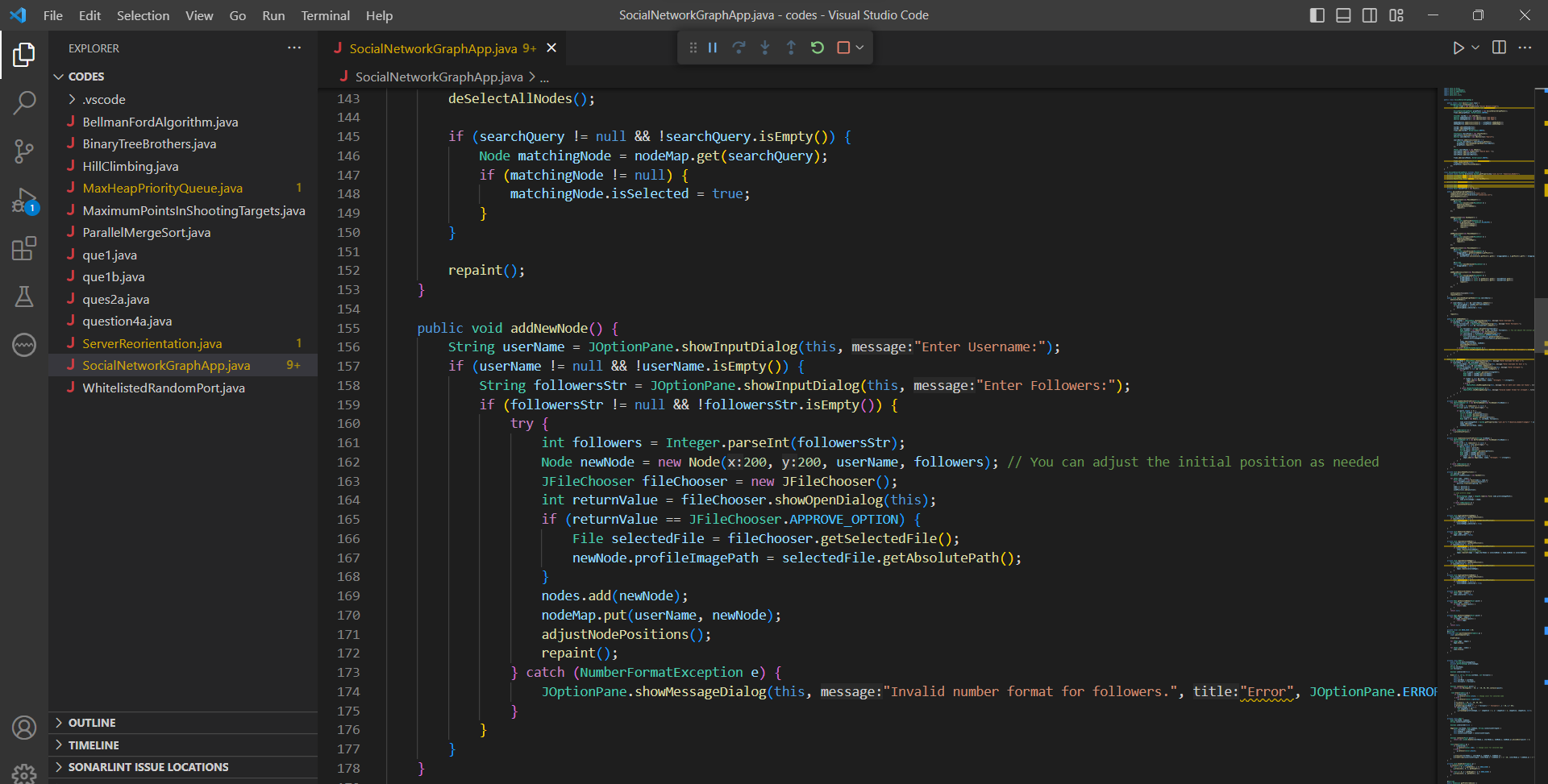
**Code;**

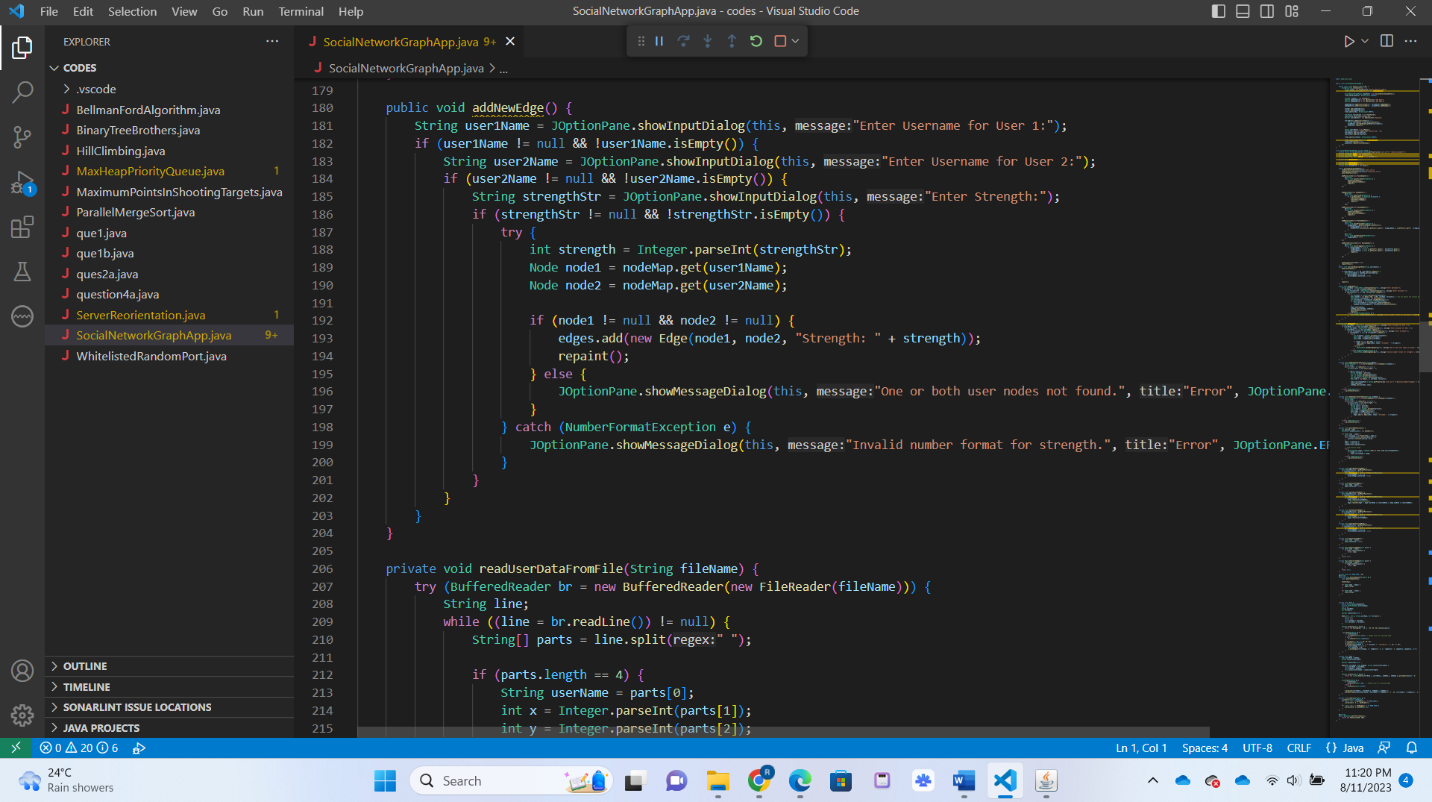


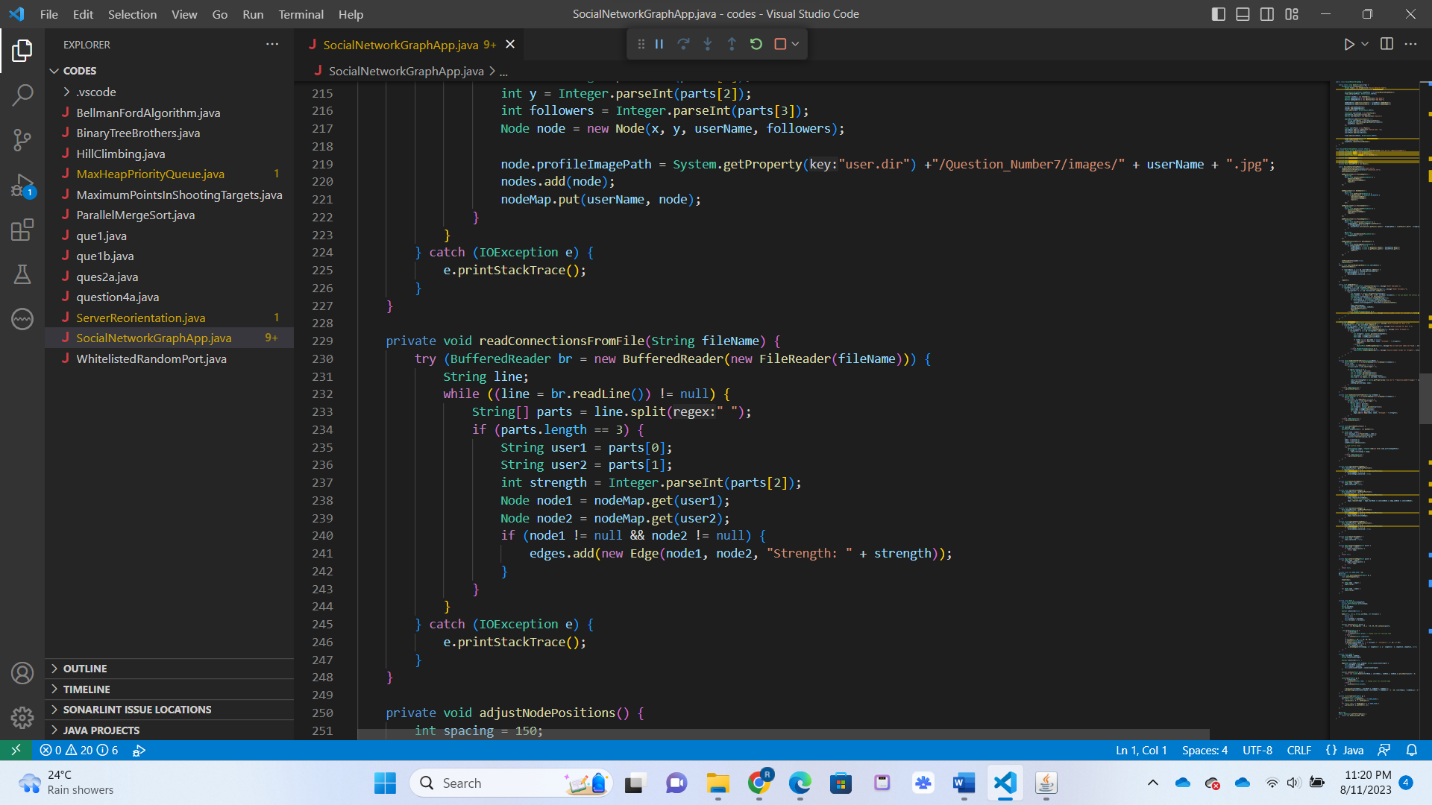


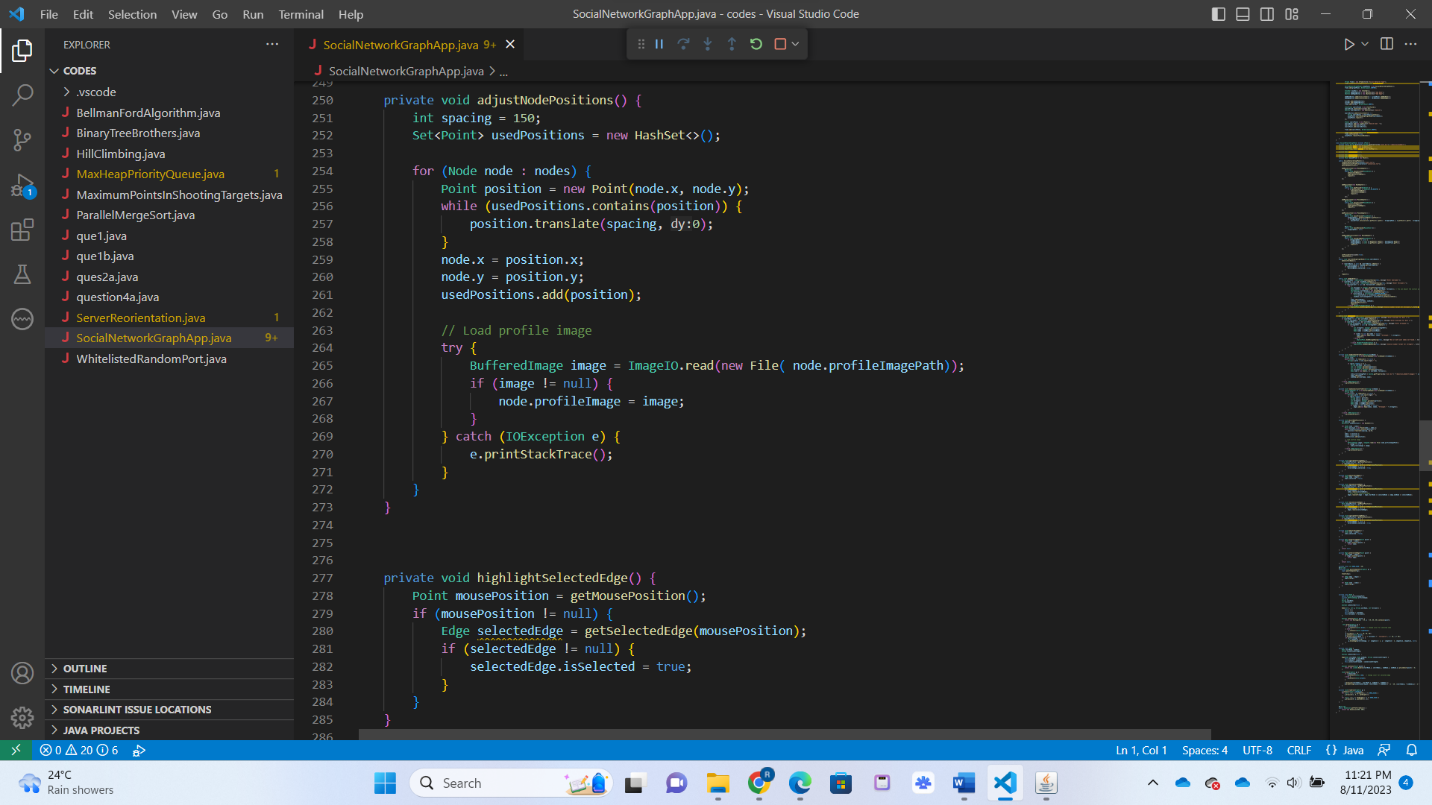


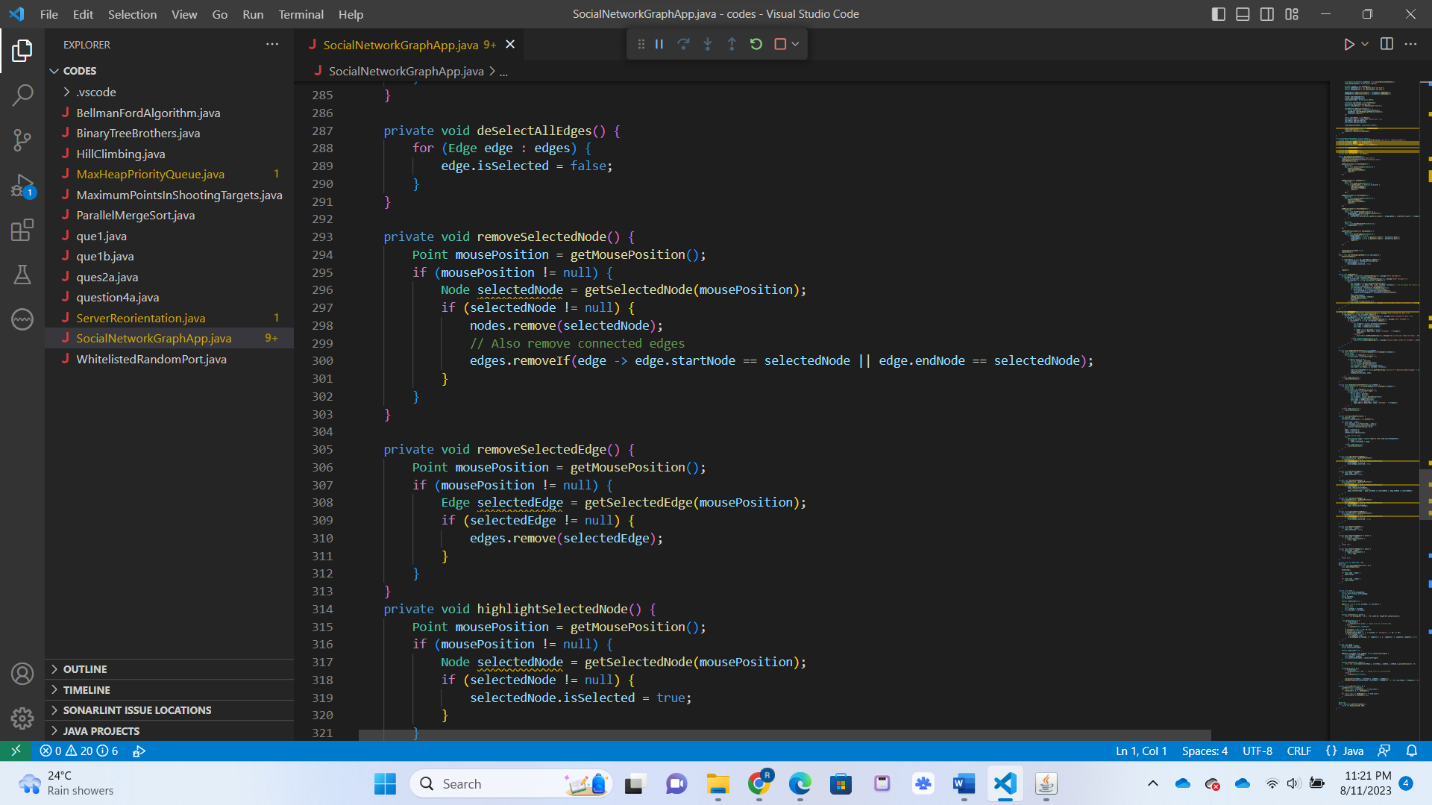


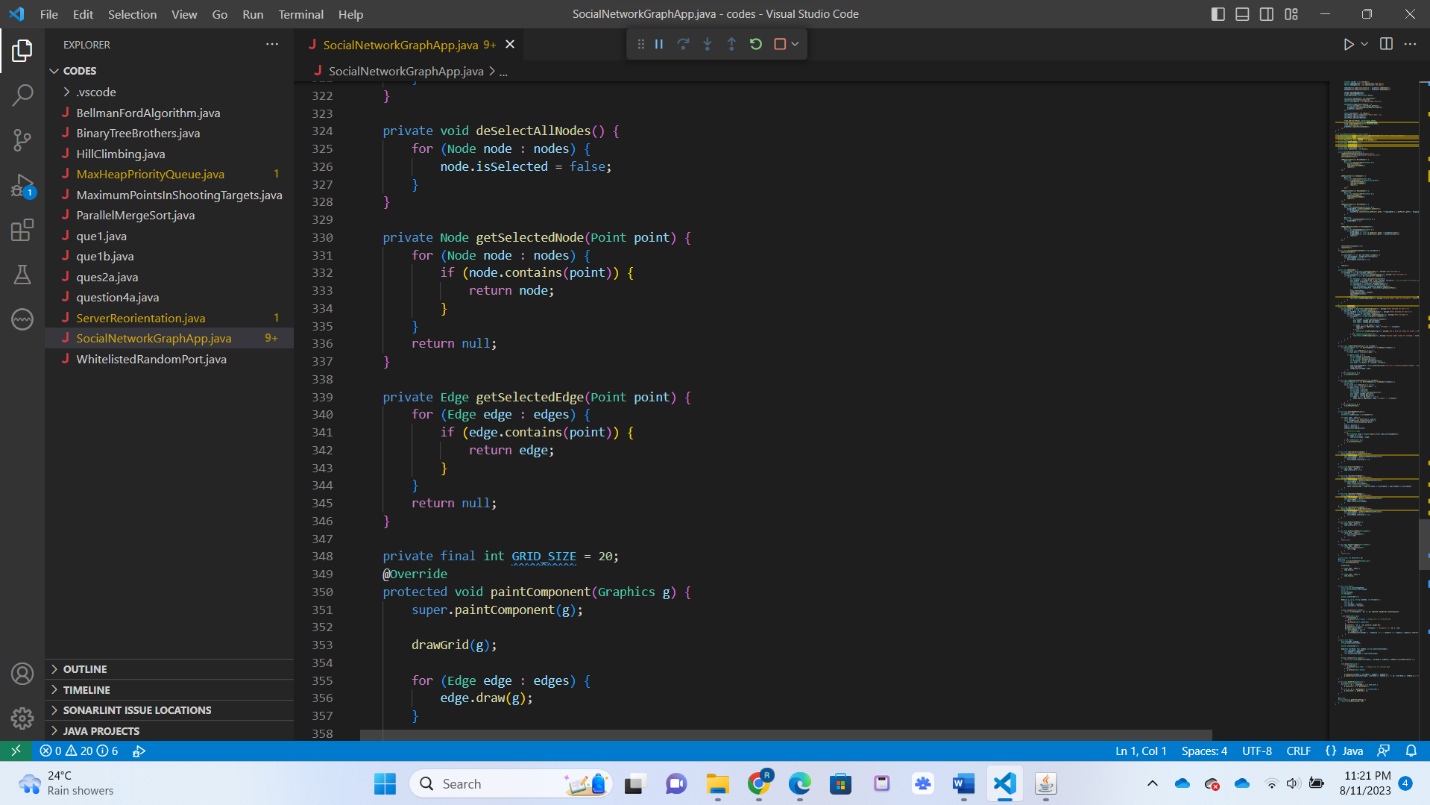


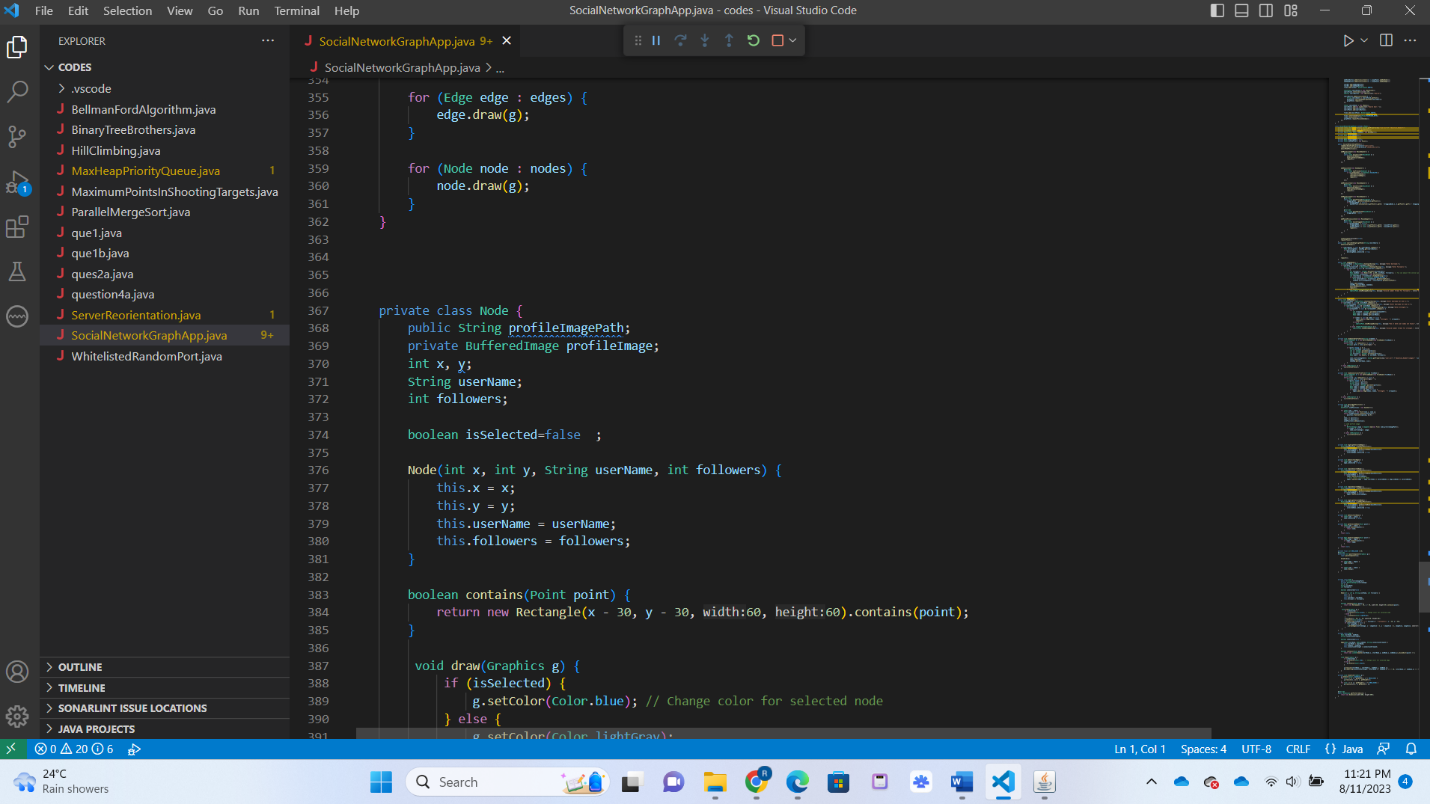


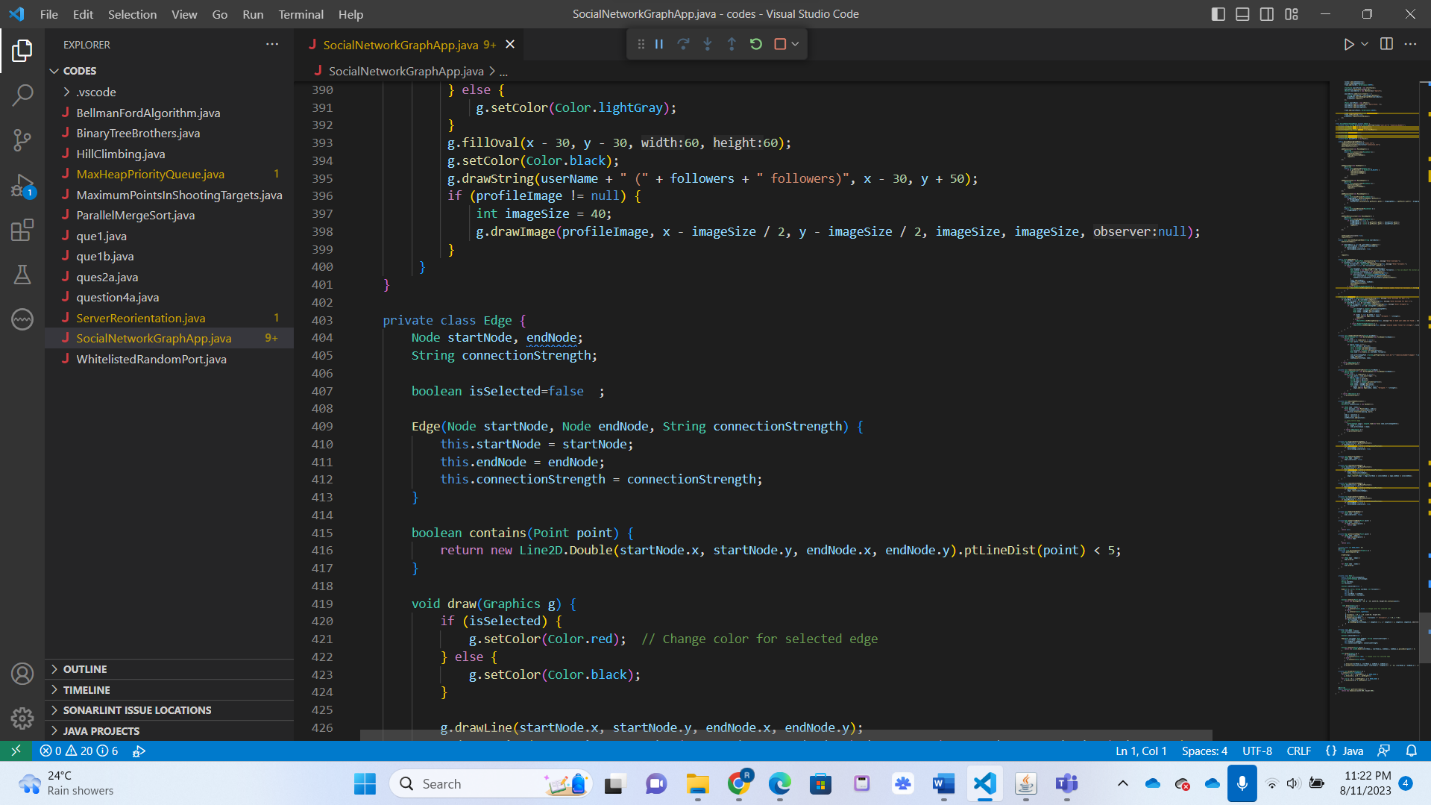


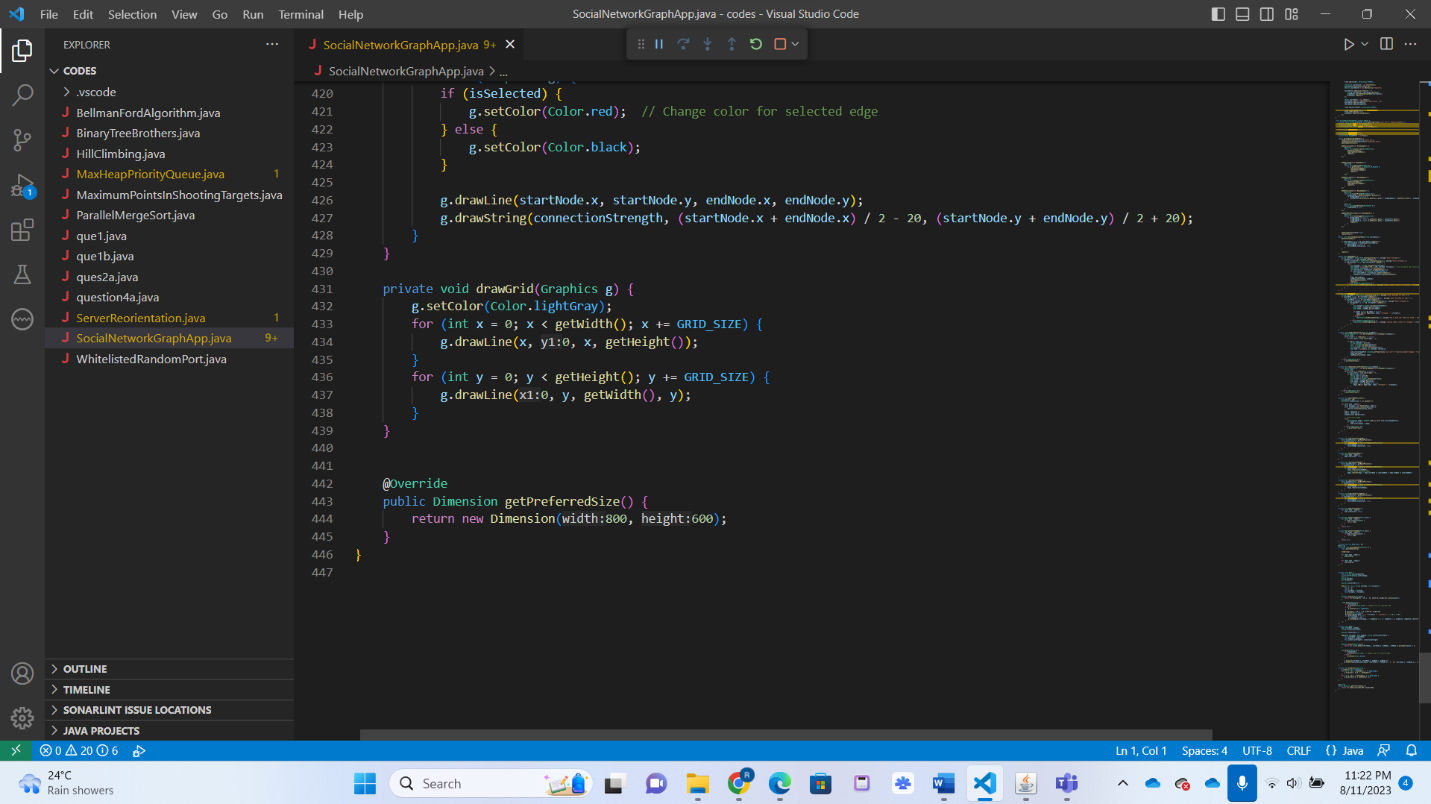


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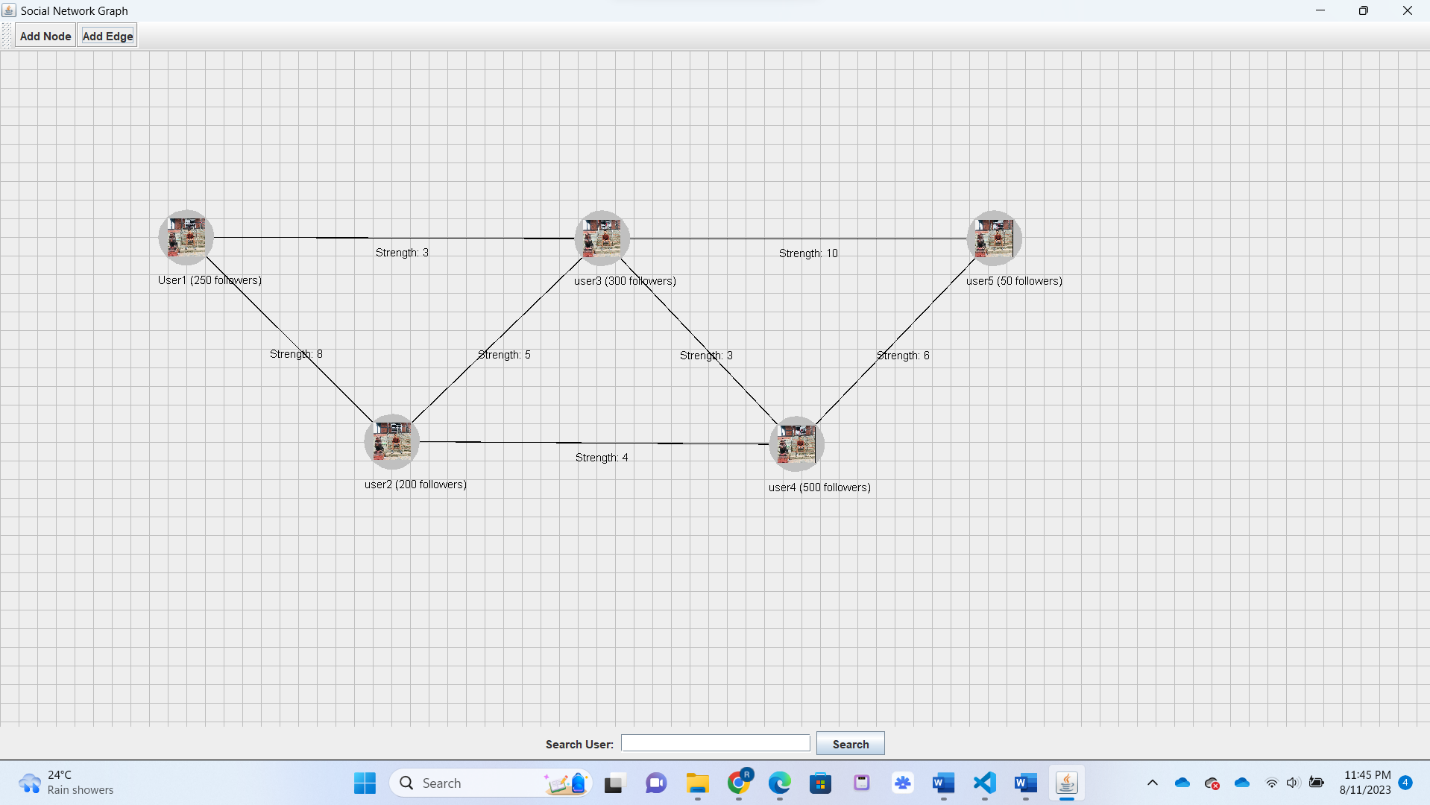
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**Output: 7**

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**Github link**: <https://github.com/2025raj/progfordev.git>

(Note : If link is not working then please type it manually)