Quiz 4 (Oct 2, 2025) NetID (e.g., ap191):

Name: ANSWER

Please write your answers clearly and keep them brief.

Problem	Score
Question 1	/ 2.5
Question 2	/ 5
Question 3	/ 2.5
Total	/ 10

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1.	What was the main purpose of the Therac-25, that is what type of therapy did it provide? [2.5 points]	
	Radiation therapy. (Anything equivalent was accepted.)	
2.	The concurrency bug that affected the Therac-25 was also present in the Therac-20, which	
	had been in use for much longer. Why was the bug not noticed in the Therac-20? $[5 \text{ points}]$	
	The Therac-20 had hardware interlocks to check dosage. This additional safeguard ensured	

3. A physicist at the University of Chicago Joint Center for Radiation Therapy eventually reproduced the concurrency bug in the Therac-20. How did the bug manifest in this machine, that is what effect did it have? [2.5 points]

Blown fuses.

that no patients were harmed due to the bug.