**Trace 1**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Serial number | Input Buffer | Person count | salestotal | personAge | Another person | Output buffer |
| 1. | - | - | x | X | x | - |
| 2. | - | - | - | X | x | - |
| 3. | - | - | - | - | x | - |
| 4. | - | - | - | - | - | - |
| 5. | - | 1 | - | - | - | - |
| 6. | - | 1 | 0 | - | - | - |
| 7. | - | 1 | 0 | - | Y | - |
| 8. | - | 1 | 0 | - | Y | - |
| 9. | - | 1 | 0 | - | Y | Person 1 |
| 10. | - | 1 | 0 | - | Y | “How old are you ? “ |
| 11. | 25 | 1 | 0 | 25 | Y | - |
| 12. | - | 1 | 0 | 25 | Y | - |
| 14. | - | 1 | 0 | 25 | Y | - |
| 15. | - | 1 | 30 | 25 | Y | - |
| 16. | - | 1 | 30 | 25 | Y | - |
| 17. | - | 1 | 30 | 25 |  | - |
| 18. | - | 1 | 30 | 25 |  | - |
| 19. | - | 1 | 30 | 25 |  | “Another Person ?” |
| 20. | y | 1 | 30 | 25 | y | - |
| 21. | - | 1 | 30 | 25 | y | - |
| 22. | - | 2 | 30 | 25 | y | - |
| 23 | - | 2 | 30 | 25 | y |  |
| 24 | - | 2 | 30 | 25 | y |  |
| 8 | - | 2 | 30 | 25 | y | - |
| 9 | - | 2 | 30 | 25 | y | Person 2 |
| 10 | - | 2 | 30 | 25 | y | “How old you are” |
| 11 | 17 | 2 | 30 | 17 | y | - |
| 12 | - | 2 | 30 | 17 | y | - |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 13. | - | 2 | 45 | 17 | Y | - |
| 14. | - | 2 | 45 | 17 | Y | - |
| 15. | - | 2 | 45 | 17 | Y | - |
| 16. | - | 2 | 45 | 17 | Y | - |
| 17. | - | 2 | 45 | 17 |  | - |
| 18. | - | 2 | 45 | 17 |  | - |
| 19. | - | 2 | 45 | 17 |  | “Another Person ?” |
| 20. | z | 2 | 45 | 17 | z | - |
| 21. | - | 2 | 45 | 17 | z | - |
| 22. | - | 2 | 45 | 17 | z | - |
| 23 | - | 2 | 45 | 17 | z |  |
| 24 | - | 2 | 45 | 17 | z |  |
| 17 | - | 2 | 45 | 17 |  | - |
| 18 | - | 2 | 45 | 17 |  | - |
| 19 | - | 2 | 45 | 17 |  | Another person |
| 20 | y | 2 | 45 | 17 | y | - |
| 21 | y | 2 | 45 | 17 | y | - |
| 22 | y | 3 | 45 | 17 | y | - |
| 23 | y | 3 | 45 | 17 | y | - |
| 8 | - | 3 | 45 | 17 | y | - |
| 9 | - | 3 | 45 | 17 | y | Person 3 |
| 10 | - | 3 | 45 | 17 | y | “How old you are” |
| 11 | - | 3 | 45 | 15 | y | - |
| 12 | - | 3 | 45 | 15 | y | - |
| 13. | - | 3 | 60 | 15 | Y | - |
| 16. | - | 3 | 60 | 15 | Y | - |
| 26 | - | 3 | 60 | 15 |  | Count 3 |
| 27 | - | 3 | 60 | 15 |  | Total 60 |
|  |  |  |  |  |  |  |