Which of the following is the correct decision table for the following pseudocode for ordering a hamburger? Note: if you add or delete items from the basic burger, you no longer get the basic burger.

|  |
| --- |
| Start Select basic burger If customer adds items  While items to be added  Ask customer which item Add item  End while  Endif If customer deletes items  While items to be deleted  Ask customer which item  Delete item  End while  Endif If customer wants fries  Add fries to order  Endif Complete order End |

**Choice a)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test # | 1 | 2 | 3 | 4 | 5 | 6 |
| Conditions |  | | | | | |
| Add items | Y | Y | N | N | N | N |
| Delete items | N | N | Y | Y | N | N |
| Add fries | Y | N | Y | N | Y | N |
| Results |  | | | | | |
| Basic burger | Y | Y | N | N | Y | Y |
| Burger - items | N | N | Y | Y | N | N |
| Added items | Y | Y | N | N | N | N |
| Fries | N | N | Y | N | Y | N |

**Choice b)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Conditions |  | | | | | | | |
| Add items | Y | Y | Y | Y | N | N | N | N |
| Delete items | Y | Y | N | N | Y | Y | N | N |
| Add fries | Y | N | Y | N | Y | N | Y | N |
| Results |  | | | | | | | |
| Basic burger | N | N | N | N | N | N | Y | Y |
| Burger - items | Y | Y | N | N | Y | Y | N | N |
| Added items | Y | Y | Y | Y | N | N | N | N |
| Fries | Y | N | Y | N | Y | N | Y | N |

**Choice c)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Conditions |  | | | | | | | |
| Add items | Y | Y | Y | Y | N | N | N | N |
| Delete items | N | N | N | N | Y | Y | Y | Y |
| Add fries | Y | N | Y | N | Y | N | Y | N |
| Results |  | | | | | | | |
| Basic burger | Y | Y | Y | Y | N | N | N | N |
| Burger - items | N | N | N | N | Y | Y | Y | Y |
| Added items | Y | Y | Y | Y | N | N | N | N |
| Fries | Y | N | Y | N | Y | N | Y | N |

**Choice d)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Conditions |  | | | | | | | |
| Add items | Y | Y | Y | Y | N | N | N | N |
| Delete items | Y | Y | N | N | Y | Y | N | N |
| Add fries | Y | N | Y | N | Y | N | Y | N |
| Results |  | | | | | | | |
| Basic burger | Y | Y | Y | Y | N | N | Y | Y |
| Burger - items | N | N | N | N | Y | Y | N | N |
| Added items | Y | Y | Y | Y | N | N | N | N |
| Fries | Y | N | Y | N | Y | N | Y | N |