Initial State:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 0 | 0 | 0 | 1 | 0 |
| X | 0 | 0 | 1 | 0 | 0 |

Bot (i=0) : t[4] == t[0] **true :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 1 | 0 | 0 | 1 | 0 |
| X | 1 | 0 | 1 | 0 | 0 |

P1 (i=1) : t[0] != t[1] **true:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 1 | 1 | 0 | 1 | 0 |
| X | 1 | 2 | 1 | 0 | 0 |

P2 (i=2) : [t1] != t[2] **true:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 1 | 1 | 1 | 1 | 0 |
| X | 1 | 2 | 0 | 0 | 0 |

P3 (i=3) : t[2] != t[3] **false**

P3 (i=3) : t[2] == t[3] **true:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 1 | 1 | 1 | 1 | 0 |
| X | 1 | 2 | 0 | 1 | 0 |

P4 (i-4) : t[3] != t[4]  **true:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 1 | 1 | 1 | 1 | 1 |
| X | 1 | 2 | 0 | 1 | 2 |

Bot (i=0) : t[4] == t[0] **true**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 0 | 1 | 1 | 1 | 1 |
| X | 0 | 2 | 0 | 1 | 2 |

P1 (i=1) : t[0] != t[1] **true**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 0 | 0 | 1 | 1 | 1 |
| X | 0 | 1 | 0 | 1 | 2 |

P2 (i=2) : t[1] != t[2] **true**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 0 | 0 | 0 | 1 | 1 |
| X | 0 | 1 | 2 | 1 | 2 |

P3 (i=3) : t[2] != t[3] **true**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 0 | 0 | 0 | 0 | 1 |
| X | 0 | 1 | 2 | 0 | 2 |

P4 (i=4) : t[3] != t[4] **true :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 0 | 0 | 0 | 0 | 0 |
| X | 0 | 1 | 2 | 0 | 1 |

Bot (i=0) : t[4] == t[0] **true :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 1 | 0 | 0 | 0 | 0 |
| X | 2 | 1 | 2 | 0 | 1 |

P1(i=1) : t[0] != t[1]  **true :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 1 | 1 | 0 | 0 | 0 |
| X | 2 | 0 | 2 | 0 | 1 |

P2(i=2) : t[1] != t[2]  **true :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 1 | 1 | 1 | 0 | 0 |
| X | 2 | 0 | 1 | 0 | 1 |

P3(i=3) : t[2] != t[3] **true :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 1 | 1 | 1 | 1 | 0 |
| X | 2 | 0 | 1 | 2 | 1 |

P4(i=4) : t[3] != t[4] **true :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 1 | 1 | 1 | 1 | 1 |
| X | 2 | 0 | 1 | 2 | 0 |

Bot(i=0) : t[0] == t[4] **true :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| T | 0 | 0 | 0 | 1 | 0 |
| X | 0 | 0 | 1 | 0 | 0 |