Photo Album test specification

|  |  |
| --- | --- |
| Atom | Scope |
| Photo | 5 |

|  |  |
| --- | --- |
| State variable | Type |
| photoAt | seq Photo |

|  |
| --- |
| Invariant |
| #photoAt.elems = #photoAt |
| #photoAt <= 3 |

|  |  |
| --- | --- |
| Operation |  |
| init |  |
|  | true |
| photoAt | none -> none |

|  |  |  |  |
| --- | --- | --- | --- |
| Operation |  |  |  |
| addPhoto |  |  |  |
| p:Photo, report!:Int | #photoAt < 3 and p !in ran[photoAt] | #photoAt < 3 and p in ran[photoAt] | #photoAt >= 3 |
| photoAt | photoAt.add[p] | = | = |
| report! | 1 | -1 | -2 |

|  |  |
| --- | --- |
| Operation |  |
| viewPhotos |  |
| result!:set Photo | true |
| result! | photoAt.elems |