Photo Album test specification

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

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

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

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

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

|  |  |
| --- | --- |
| Operation |  |
| viewPhotos |  |
| output\_result:set Photo | true |
| output\_result | photoAt.elems |