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| Name of Bug | Dividing by zero in length |
| Author of Report | Alex |
| Date | 10/4/2019 |
| Path to Location of Bug | vector -> Vector -> setLength  vector -> Vector-> scale |
| Conditions | |  |  | | --- | --- | | Condition 1 | Length must be zero | |  |  | |  |  | |  |  | |
| Cause | There is an unchecked dived that causes an error when using the vector later. |
| Proposed solutions | |  |  | | --- | --- | | Add an exception | Throw an illegal argument exception when zero is given | | Default | If a zero is given set the vector to the zero vector | |  |  | |
| Chosen solution | Add an exception |

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| Conditions | |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | |
| Cause |  |
| Proposed solutions | |  |  | | --- | --- | | Idea one |  | | Idea two |  | |  |  | |
| Chosen solution | Idea one |