

## Initial Test Case Identification (November 16)

1. Test that the initial state is loaded correctly
  2. Test unloading the Cat container
  3. Test loading new containers onto the ship
  4. Test attempting to unload a non-existent container
  5. Test loading with an empty list of containers
  6. Test unloading with an empty list of target containers
  7. Test that empty operations don't add unnecessary time
  8. Test balancing with just one container
  9. Test when no valid moves are possible for balancing
  10. Test all ship cases from Keogh
  11. Save a ship configuration and verify its correctness.
  12. Test that loading 90 containers takes less than 15 minutes
  13. Test that unloading 90 containers takes less than 15 minutes
  14. Test that balancing 34 containers takes less than 15 minutes
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## Test Execution and Results (November 23)

1. Success
  2. Success
  3. Success
  4. Fail; adjustments made accordingly
  5. Success
  6. Success
  7. Success
  8. Success
  9. Success
  10. Success
  11. Success
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## Follow-Up Tests (December 8)

Additional tests were performed to verify performance and stress-test the system:

### Stress Testing

12. Success
13. Success
14. Success

### UI Testing

1. Verify layout and functionality on different screen sizes: Success (manual test).