

Appendix 2: Testing Plan

| Test type | Nature of test | Example | Expected outcome |
|------------------------------|--|--|---|
| <i>Navigation bar test</i> | Checking if the links redirect the user to right pages | The user clicks the "About" link | The user is redirected to the "About" page |
| <i>Home button test</i> | Checking if the home link is working | The user clicks the "Hub" link | The user is redirected to the home page |
| <i>Leaderboard test</i> | Validation of the leaderboard generation | The user goes to the leaderboard page | The leaderboard is fully filled in and displays correct and valid data |
| <i>Math display test</i> | Checking for MathJax rendering on the Resources page | The Resources page is opened | The math is rendered correctly and is clickable and selectable |
| <i>Links redirects</i> | Checking for broken links or duplicating links | The user goes to one of the websites linked in the main page | The user is redirected to the needed page |
| <i>Leaderboard redirects</i> | Testing the correctness of leaderboard links redirects | The user clicks a leaderboard card | The user is redirected to a Codeforces profile of the competitor specified on the card |
| <i>Adaptivity test</i> | Checking the website look on mobile devices | The user opens the website on a mobile device or a tablet | The website and the leaderboard are rendered and working correctly without accessibility and usability issues |