

Reindeer Hunter

VERSION 2

Third-Party Libraries Used

The following third-party libraries were used as part of the Reindeer Hunter program:

- IText Sharp
- FileHelpers
- Json.net

The usage rights of these libraries are governed by the Open Source License.

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Introduction to Reindeer Hunter

The Reindeer Hunter program was created to facilitate the process of managing the Sacred Heart annual Reindeer Hunt, put on by the Student Council of Sacred Heart High School in Stittsville near Christmas time.

Usage of Reindeer Hunter code

The Reindeer Hunter code is owned by Kyle Anderson. The code for the Reindeer Hunter program is open source, and can be modified and used without permission by the owner. It is available at

<https://github.com/eAUE/Reindeer-Hunter>.

Feel free to suggest features or improvements.

Prerequisites and Setup

Student Information Spreadsheet

The student information spreadsheet is a spreadsheet containing information on all the students that are to be imported into the program. From this spreadsheet, a comma separated values file which can be imported by the program can be generated. The spreadsheet must be of the following format to work properly with the Reindeer Hunter program:

	A	B	C	D	E
1	First	Last	Student Number	Grade	Homeroom
2	First 9-1	Last 9-1	9000001	9	901
3	First 9-2	Last 9-2	9000002	9	902
4	First 9-3	Last 9-3	9000003	9	903
5	First 9-4	Last 9-4	9000004	9	904
6	First 9-5	Last 9-5	9000005	9	905
7	First 9-6	Last 9-6	9000006	9	906
8	First 9-7	Last 9-7	9000007	9	907
9	First 9-8	Last 9-8	9000008	9	908
10	First 9-9	Last 9-9	9000009	9	909
11	First 9-10	Last 9-10	9000010	9	910
12	First 9-11	Last 9-11	9000011	9	912
13	First 9-12	Last 9-12	9000012	9	912
14	First 9-13	Last 9-13	9000013	9	913
15	First 9-14	Last 9-14	9000014	9	914
16	First 9-15	Last 9-15	9000015	9	915

If any of those fields are empty, then an error will be raised when the comma separated values file is imported.

Student Results Spreadsheet

The student result spreadsheet is an easy way to input multiple match results into the program at once, using a comma separated values file generated by the spreadsheet. The spreadsheet should be of the following format:

	A	B	C	D	E
1	Timestamp	Student's First Name	Student's Last Name	Student's Homeroom	Student's Number
2	10/21/2017 9:10:54	First 9-6	Last 9-6	906	

The Timestamp is ignored by the program, so it can be empty. To function properly on import, either the Student's First Name; Last Name and Homeroom fields must be filled in correctly **or** just the student's number **or** all of the fields must be filled in correctly.

Convert the spreadsheet to a comma separated values format and it can be imported via the Import Match Results menu option in the Home Page. See [Home Page](#).

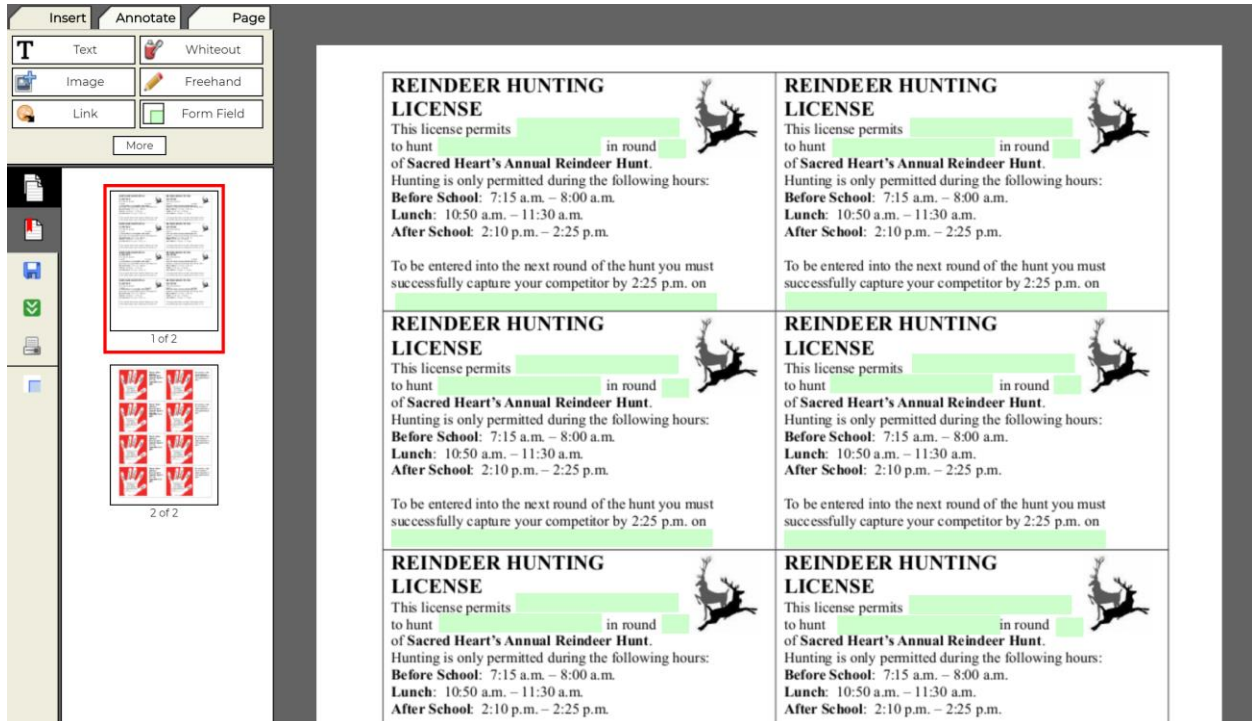
Student License Form Template

When the instant print function is used in the Reindeer Hunter program, the app will look for a template PDF file to duplicate and fill in its data directory. If such a file does not exist, it will open a prompt asking for one. Therefore, the license form template must be of proper format.

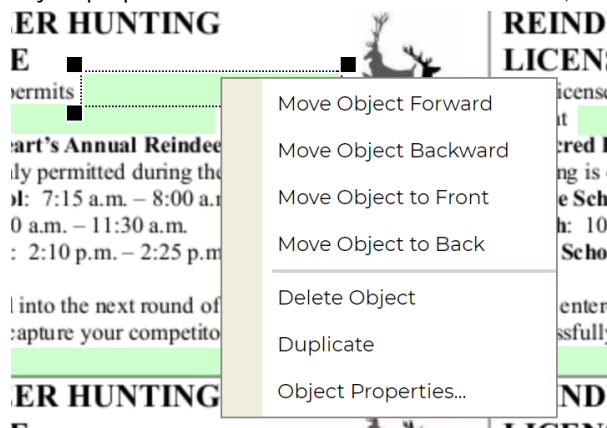
It must be a PDF file with form fields named correctly and have 8 licenses per page.

A free and easy to use tool to create PDF forms that would work for the Reindeer Hunter application could be with the [PDFEscape online editor](#).

To prepare a usable PDF form file using this tool, export one page of the year's licenses into PDF format with whatever software you used to create it. Then, go to the PDF Escape online editor and upload this PDF file. Using the editor, create text form fields where the program will be filling in data, as seen in the picture below.



Once they are all created, you need to select each one and assign it properties, by right clicking and selecting object properties on each of the form fields. Then, set the name of the form field following these guidelines:



If the form field is the placeholder for the first student in the match, it should have the base name of **Student1**. If it the field is the placeholder for the second student in the match, it should have the base name of **Student2**.

Round end date placeholders must have the base name of **Date**. Round number placeholders should have the base name of **Round**.

Then, to these base names (except for the ones in the first add an underscore followed by the number it is. In the end, the fields should have the following names.

<p>REINDEER HUNTING LICENSE</p> <p>This license permits Student1 to hunt Student2 in round Round of Sacred Heart's Annual Reindeer Hunt. Hunting is only permitted during the following hours: Before School: 7:15 a.m. – 8:00 a.m. Lunch: 10:50 a.m. – 11:30 a.m. After School: 2:10 p.m. – 2:25 p.m.</p> <p>To be entered into the next round of the hunt you must successfully capture your competitor by 2:25 p.m. on Date</p>	<p>REINDEER HUNTING LICENSE</p> <p>This license permits Student2_2 to hunt Student1_2 in round Round_2 of Sacred Heart's Annual Reindeer Hunt. Hunting is only permitted during the following hours: Before School: 7:15 a.m. – 8:00 a.m. Lunch: 10:50 a.m. – 11:30 a.m. After School: 2:10 p.m. – 2:25 p.m.</p> <p>To be entered into the next round of the hunt you must successfully capture your competitor by 2:25 p.m. on Date_2</p>
<p>REINDEER HUNTING LICENSE</p> <p>This license permits Student1_3 to hunt Student2_3 in round Round_3 of Sacred Heart's Annual Reindeer Hunt. Hunting is only permitted during the following hours: Before School: 7:15 a.m. – 8:00 a.m. Lunch: 10:50 a.m. – 11:30 a.m. After School: 2:10 p.m. – 2:25 p.m.</p> <p>To be entered into the next round of the hunt you must successfully capture your competitor by 2:25 p.m. on Date_3</p>	<p>REINDEER HUNTING LICENSE</p> <p>This license permits Student2_4 to hunt Student1_4 in round Round_4 of Sacred Heart's Annual Reindeer Hunt. Hunting is only permitted during the following hours: Before School: 7:15 a.m. – 8:00 a.m. Lunch: 10:50 a.m. – 11:30 a.m. After School: 2:10 p.m. – 2:25 p.m.</p> <p>To be entered into the next round of the hunt you must successfully capture your competitor by 2:25 p.m. on Date_4</p>

First-time setup

The first time you open the program, the screen that appears should look like the picture to the side. There is



only one action that can be taken at this screen: importing a .csv file.

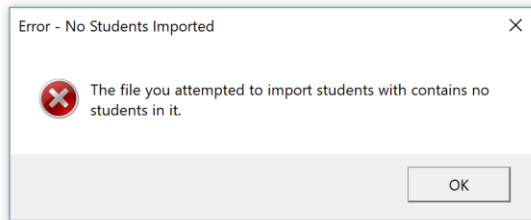
This button is in fact prompting the user to import a .csv file. This is in fact asking for the .csv file generated by the steps followed in the [Student Information Spreadsheet](#) section. This comma separated values (or .csv) file contains the necessary student data for the students you wish to manage during the Reindeer Hunt.

Note that the option to Import Students becomes unavailable once round 1 of the hunt begins.

Once students are properly imported, you should be taken to the [Home Page](#) of the program. This process of importing students could take some time, especially if you have a large number of students to import. If you encounter any errors during this stage, see the [troubleshooting](#) section.

Troubleshooting

Reindeer Hunter

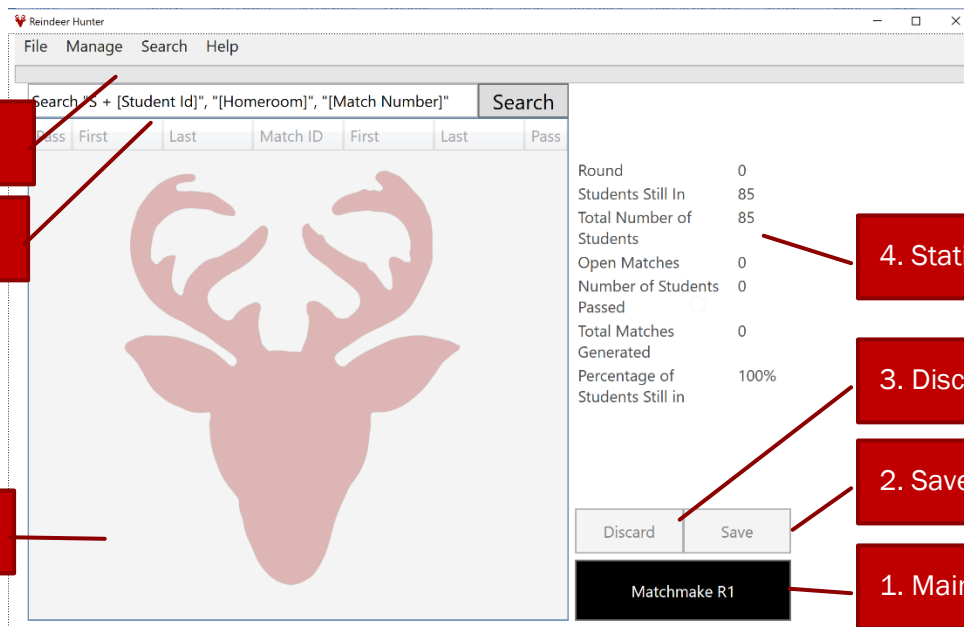


If you see this error message after importing a student file, check that the file is not blank, and that the first line of the .csv file doesn't have any students in it. The program ignores the first line of the comma separated values file as it assumes that the header from the spreadsheet takes up the first line.

Once dismissed, you are taken back to the first-time setup page.

Home Page

The Home Page of the Reindeer Hunter program offers an overview of the current Reindeer Hunt as well as many of the actions that can be performed to manage the hunt.



1. Main Process Button	<p>As the title suggests, this is the button for the major actions in the Reindeer Hunter program. It has three states: Matchmake, Instant Print and Go to FFA.</p> <p>Shortcut key: SPACE</p>
Matchmake	<p>When in the Matchmake state, clicking the Main Process Button will automatically generate matches with the students that are currently still in the hunt, and then displays them on the Match Display Table. Once created, the matches must be saved before any actions affecting these matches can be performed.</p> <p>Save matches using the Save Button.</p> <p>The Main Process Button will be in Matchmake state when sufficient students are still in the hunt to not be in Free For All state (Go To FFA state) and all matches are closed.</p>
Instant Print	<p>When in Instant Print state, clicking the Main Process Button will generate a PDF file of Reindeer Hunt licenses filled with the current matches' information.</p> <p>If the template PDF file has not been imported already into the program, clicking the Instant Print button will prompt you to open the template PDF file.</p> <p>Once the process is completed, a file dialog will open prompting to save the newly filled licenses. If this is cancelled, the filled licenses will export to the current user's desktop.</p> <p>The Main Process button will be in this state when there are currently matches open in the current round.</p> <p><i>Note: The Instant Printer fill the licenses with all matches from the current round, even if they are closed.</i></p>
Go To FFA	<p>When in Go To FFA state, clicking the Main Process button changes the program to the Free For All page. See Free For All.</p>
2. Save Button	<p>The Save button becomes enabled whenever an action causes a change that needs saving, such as Matchmaking or modifying matches in the Match Display Table.</p> <p>Clicking it saves the modified content.</p> <p>Shortcut Key: S</p>
3. Discard Button	<p>The Discard button becomes enabled whenever an action causes a change that needs saving, such as Matchmaking or modifying matches in the Match Display Table.</p> <p>Clicking it discards the modified content.</p> <p>Shortcut Key: D</p>
4. Statistics Table	<p>The Statistics table displays various data on the current round of the Reindeer Hunt.</p>
5. Match Display Table	<p>The Match Display table displays matches based on the currently selected filters. See Filters and Search.</p> <p>It also allows you to pass students into the next round by checking the checkbox next to the student and then saving.</p> <p>On top of this, you can view information on either students or matches by double clicking on the cell that contains the Match ID or the student's information. See Properties Window.</p>
6. Search Box	<p>The Search Box acts alongside with the Filters and Search system to aid in sorting through matches or finding students. Matches, homerooms and students can be searched for.</p>

Search for matches by entering the match id. See [Match ID](#) section for formatting of the match id.

Search for students in a homeroom by entering the homeroom's number into the search box.

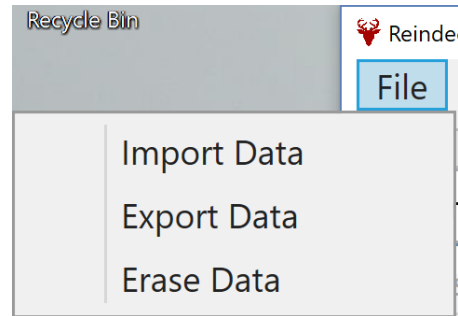
Search for students either by entering their full name, or their student number.

Submit your search using the Search button, or by pressing **Tab**.

7. Menu Bar

The Menu Bar contains various menus.

File Menu

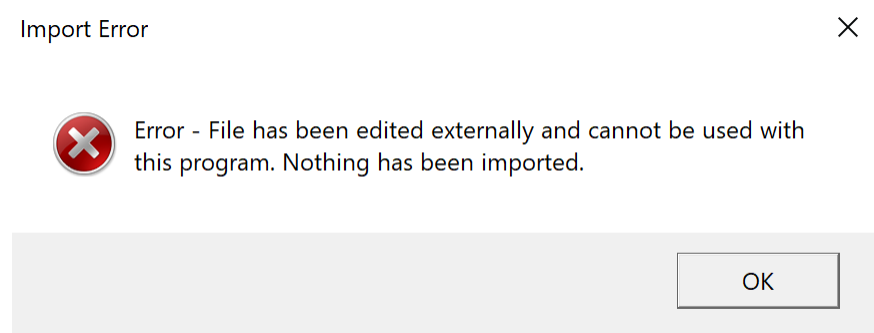


Import Data

Imports exported Reindeer Hunt data. When this option is pressed, a file dialog will open, prompting to open a json file. This json file should contain data that you wish to import into the program.

To ensure that it is of the proper format, only ever import data that has been exported from the Reindeer Hunter program and has not been modified externally.

If an import error dialog pops up when importing a data file, the file that is being imported is of invalid format and cannot be imported, because the file has been modified outside of the Reindeer Hunter program.



Export Data

Exports the data for the current hunt to a json file that can be imported back into the program later. This can be used to save data for a particular year's Reindeer Hunt or to create backups of the current hunt.

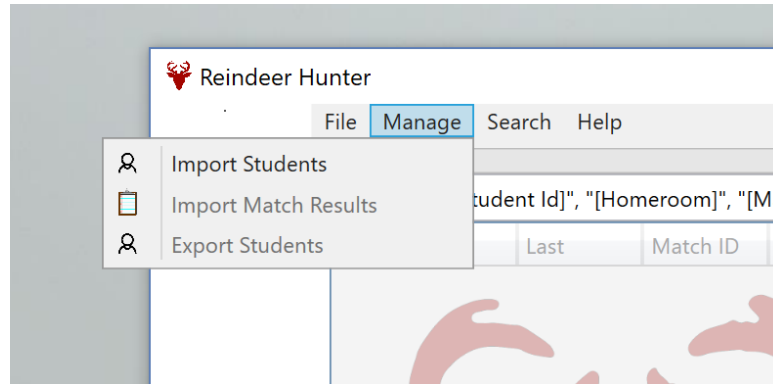
Once clicked, a file dialog will prompt you to save the json file somewhere.

Once exported, the file **must not** be modified as this could cause failure to import it back into the program.

Erase Data

Wipe the program, erasing all students, matches and preferences. This action cannot be undone. It is recommended to export data before erasing it, as this way it could be imported again later.

Manager Menu

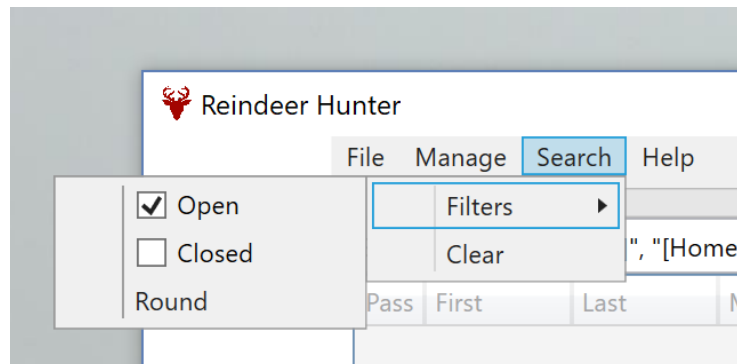


Import Students Import more students from a comma separated values (csv) file. See [Student Information Spreadsheet](#) for proper formatting of this file. Note that this option is only enabled before the first round is made and saved.

Import Match Results Import the results for matches from a comma separated values (csv) file. See [Match Results](#).
This menu option is only enabled when there are matches open.

Export Students Exports the current view the students that are currently on the Main Display Table) to a .csv file, ready for importing into a spreadsheet. It will be exported into the same format at the [Student Information Spreadsheet](#).

Search Menu Provides various filters for searching.



Matches can be sorted by the round they belong to, or their status (open or closed).

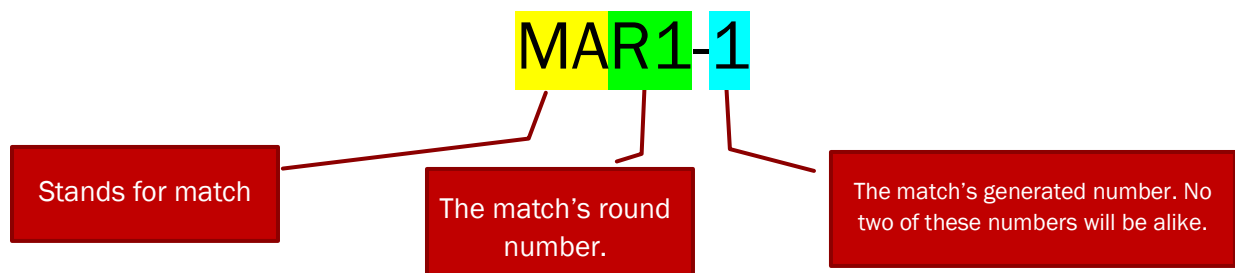
Filters and Search

The filters menu options and the search box work together to display relevant content. That is, when searching for students or matches, the filters still apply. Therefore, if you attempt to find a closed match with only the open filter selected, you will not get any results.

By default, the filters are set to open matches in the current round only. Clearing the filters by pressing the clear button in the Search menu will reset them to this default.

Match ID

The match id is unique to every match, and is in the following format:



Properties Window

Properties

Student 1 ID	100017
Student 1 First	First 10-17
Student 1 Last	Last 10-17
Student 1 Homeroom #	1007
Student 1 Status	
Match Status	Open
Round	1
Match ID	MAR1-10
Student 2 ID	100015
Student 2 First	First 10-15
Student 2 Last	Last 10-15

Reopen

Properties

First	First 10-17
Last	Last 10-17
Id	100017
Grade	10
Homeroom	1007
Match	MAR1-10
Last Round	1

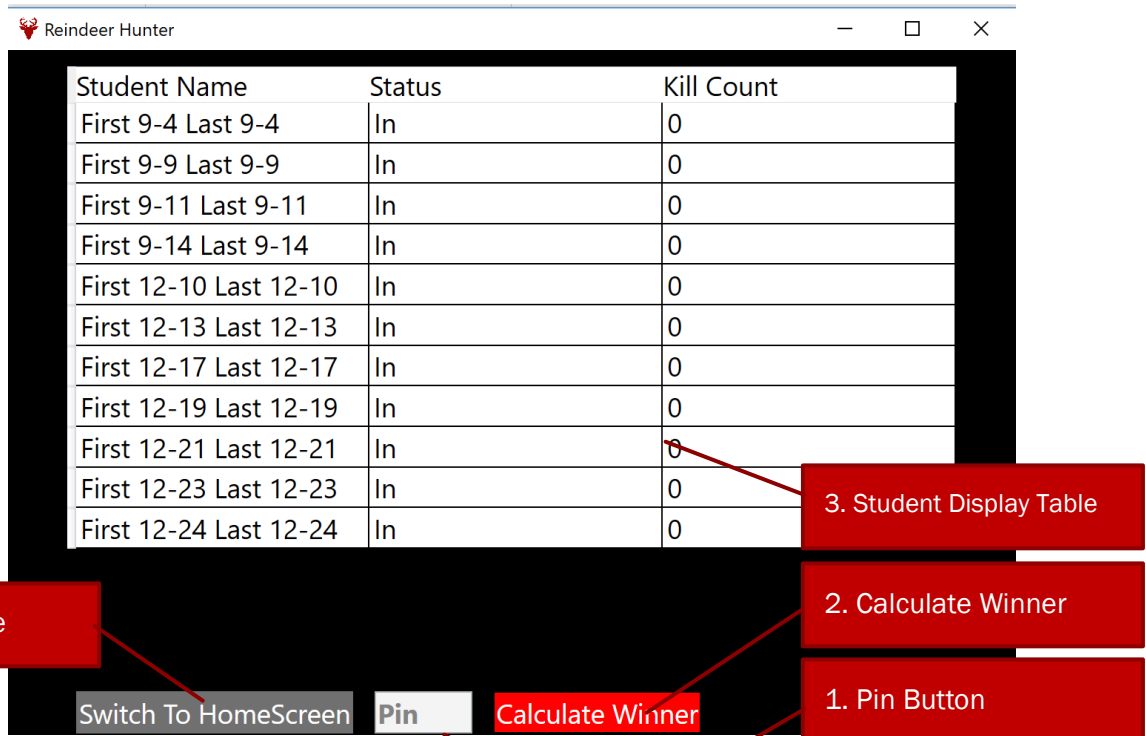
Matches

MAR1-10

The properties window can be activated either for matches or students from either the Match Display Table in the Home Page or the Student Display Table on the Free For All page. Double clicking on either the match number or one of the students' properties displays a new window containing information on that particular match or student.

When activated from the Home Page's Match Display Table, student properties or matches can be double clicked on from the properties window to switch to seeing information on that student or match, without having to close the window and then find the relevant students or matches.

Free For All Page

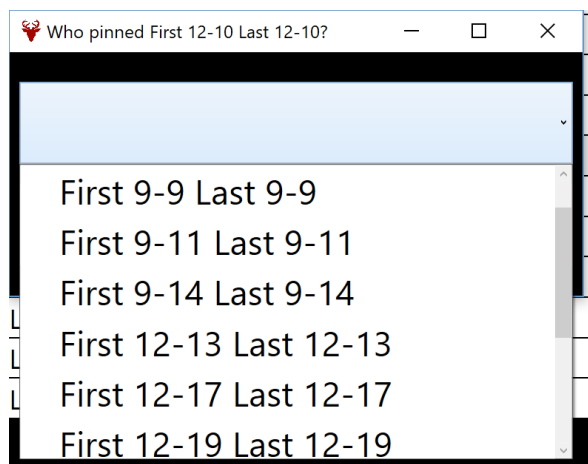


The free for all page is accessed by pressing the Main Process Button from the home page whenever it is enabled. See [Home Page](#). This page is used to manage the free for all portion of the Reindeer Hunt.

1. Pin Button

The pin button is enabled only when a student that is still in the hunt is selected in the Student Display Table.

When this button is pressed while a valid student is selected in the Student Display Table, a dialog asking for the pinner of the selected student will show. Only students that are still in will be listed as options.



Shortcut Key: P

2. Calculate Winner

The calculate winner button is enabled the entire time and is used to calculate who won the hunt. It does this by finding the student that is still in the hunt and who has the most kills of those still in the hunt.

If there is a tie of some sort, a prompt will open asking for the student that won the coin toss. You can close the program, do the coin toss with the students that tied and reopen the program and select the winner.

Once the winner is calculated, all actions which modify data in the Reindeer Hunter program will be blocked. You can still go back to the home page and browse students and matches though, and perform any other non-modifying actions.

3. Student Display Table The student display table displays all students in the free for all portion of the Reindeer Hunt. Unlike the match display table on the home page, it cannot be filtered or searched through.

Just like the match display table on the home page, you can double click any of the students' properties and a properties window will open with information on that student. The properties window generated by the free for all page will contain more information than the regular properties window, such as who the student has pinned and how many pins they have.

4. Switch To Home The switch to home button switches to the home page.

Shortcut Key: H