



## CODING & PROGRAMMING

Type: Individual  
Submission: URL and Statement of Assurance  
Rating Sheet: <http://www.fbla-pbl.org/media/Coding-and-Programming-FBLA-Rating-Sheet.pdf>

### Overview

Two parts: a prejudged project and a presentation.  
Competitors must complete both parts for award eligibility.

No changes may be made to the submission between the regional conference due date and the state conference.

### 2019 Topic

Develop a computer program to manage the issuance of e-books to a class of students. Give the class and e-book a name. The program must complete a minimum of the following tasks:

- Track student name and grade in school with ability to enter/view/edit.
- Track the redemption codes for each individual copy of the e-book with ability to enter/view/edit codes.
- Track the issuance of e-books for a student--a redemption code may be used only once and paired with the student.
- Generate or print weekly report to show to whom books are assigned.
- Data must be stored persistently. Storage may be in a relational database, a document-oriented NoSQL database, flat text files, flat JSON or XML files.
- The user interface must be a GUI with a minimum of five different control types including such things as drop-down lists, text fields, check boxes, emails, or other relevant control types.
- All data entry must be validated with appropriate user notifications and error messages including the use of required fields.

### Procedure

#### Region and State: Prejudged

- Competitors will submit a Statement of Assurance containing the URL to the regional director by the date established annually. Submissions will be prejudged only at the regional level.
- Competitors must prepare projects.
- Competitors are expected to follow all applicable copyright laws; any photographs, texts, trademarks, or names used must be supported by proper documentation and approvals indicated on the site or project
- When applicable, the use of templates must be identified.

#### State: Presentation

- Presentation of the entry must be conducted by competitors who authored the event.
- Visual aids related to the project may be used; however, no items may be left with the judges.
- The presentation is designed to be an explanation of equipment used, software used, the development process, an overview of how copyright laws were addressed, and challenges experienced during the process.
- Participants may bring a 3-minute video to show to the judges as well as a computer and projection unit. A screen, electricity, and equipment table will be provided.

### Eligibility

- Each chapter may submit one entry. The 1<sup>st</sup> and 2<sup>nd</sup> place regional winner will compete at the state level.
- Competitors must pay dues by March 1.
- No more than one (1) team member may have competed in this event at a previous State or National Conference.
- Competitors cannot be replaced or substituted for prejudged events.

### Presentation

*Equipment Setup:* 5 minutes  
*Performance:* 7 minutes  
*Warning:* 6 minutes  
*Penalty for over time:* 5 points  
*O & A:* 3 minutes

A panel of judges will select the winners; all decisions are final. The number of awards presented will be determined by the judges. The maximum number of awards will be three (3) at the regional level and five (5) at the state level.