

(335) C++ Programming (S | PS)

Description

Evaluate knowledge of working with structured designs, algorithms, and OOP methodology using the C++ language. This contest can only be completed using the C++ programming language, if you want to use C#, you must take the C# contest. This contest will be graded on the Windows operating system; therefore, Unix/Linux should *not* be used.

Eligibility

Any Secondary or Post-secondary division student member may enter this event.

Member must supply

Computer or laptop/notebook; a full-size keyboard may be used (no printer is needed)

Carry-in and set-up of equipment must be done solely by the member

Member must bring all supporting devices and software appropriate for the event (e.g., extension cords, power supply, IDE, paper, etc.)

Published and/or unpublished non-electronic written reference materials

Only pre-written code that is hard copied is allowed.

Business Professionals of America assumes no responsibility for hardware/software provided by the member. No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. Violation of this rule will result in disqualification.

Competencies

- Demonstrate understanding of general programming concepts and C++ computer language
- Use programming skills for proper development of a C++ computer program
- Demonstrate knowledge of C++ computer language
- Implement program logic (algorithms, structured design)
- Use structural design techniques and object-oriented concepts
- Understand and implement UML diagrams
- Create a C++ program using calculations, totals, selection statements, logical operators, classes, sequential file access, I/O operations, loops, methods, arrays, and data structures (linked lists, structures, etc.)

Method of evaluation

Application

Length of event

No more than ten (10) minutes orientation, ninety (90) minutes testing time, ten (10) minutes wrap-up

Entries

Each state is allowed five (5) entries