



**DSBN REGIONAL CODING CHALLENGE 2021  
SECONDARY LEVEL SCOPE**

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**PURPOSE OF THE CONTEST:**

To test the skill and knowledge of each student in the area of computer programming and to help prepare each student for a career with coding.

**EVENT DETAILS:**

Date: March 1 - 12, 2021  
 Time: 3 hour period as determined by school  
 Location: Individual Schools

**MAXIMUM NUMBER OF COMPETITORS: 50**

**SKILLS AND KNOWLEDGE TO BE TESTED:**

To demonstrate the skills and knowledge necessary to solve problems using computer programming. Students should be prepared for the competition by developing the following knowledge/skills:

Problem Solving/Knowledge <ul style="list-style-type: none"> <li>• Flowcharts/Pseudocode</li> <li>• User Requirements</li> <li>• Testing</li> <li>• Math</li> </ul>	Programming Skills <ul style="list-style-type: none"> <li>• Variables</li> <li>• File I/O</li> <li>• Arrays</li> <li>• Control Structures</li> <li>• Console Based Applications</li> </ul>
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**Special Note:**

Students are permitted to use the programming language of their choice. **Competitors at the provincial level must use C# or Java. It is expected that if a student participates in the DSBN competition using a language other than C# or Java, that they will familiarize themselves with C# or Java if they move on to the provincial competition in May as they are the only acceptable languages.**

**SAFETY REQUIREMENTS:**

Competitors are required to follow all industry safety standards during the competition.

**EQUIPMENT, MATERIALS, TOOLS, AND SUPPLIES:**

**Equipment Supplied by the Competitor:**

- The competitor should have access to a laptop or desktop computer with the programming language of their choice installed.
- Competitors will need to have a HackerRank.com (<https://www.hackerrank.com/dashboard>) account.

**CLOTHING REQUIREMENTS:**

Casual business attire must be worn with DSBN Technology shirts.

**JUDGING CRITERIA:**

HackRank Contest Questions	100%
- Question 1	10%
- Question 2	15%
- Question 3	20%
- Question 4	25%
- Question 5	30%
Total Possible Score	100%

**ENTRY:**

Students must register online at <http://teched.dsbnet.org/skills> with all of the required information completed to be eligible to participate.

**TRANSPORTATION:**

Students are responsible for their own transportation.

**TEACHER'S ROLE:**

Instructors are expected to acquaint their student participants with all of the enclosed guidelines. Teachers should invigilate the writing of the contest but may not assist the competitors during the challenge.

**COMPETITION AGENDA:**

Competitors have 3 hours to complete the contest.