Here is a concise summary of the paper in 3 paragraphs, along with a title:

Extracting Features for Computational Thinking from Block-Based Code

1. The authors present a method to extract features from block-based code for studying ompputational thinking (CT) concepts. The paper motivates the use of a specific format that associates each block of code with actions such as drawing a triangle, storing a highlighted code segment into an array, or appending the code to a class. This allows the authors to study the evolution of code through successive iterations, and presents a novel contribution of extracting features from block-based code.
2. The paper identifies several features, including repetition of code blocks, storing of state information, and updating of code into an array. This allows the study of how certain computational thinking factors, such as encapsulation, abstraction, automation, and collection of statistics, affect the generated visualizations and models. The authors note that this contribution represents a unique way to extract features from block-based code, and provides insight into the computational thinking activities involved.
3. The authors also mention a f\theta Cha, which combines an event listener detecting a specific selection in the code, and then triggers an update to the displayed visualizations, charts, and models. This is designed to demonstrate the evolution of a student's work, and provide insight into their computational thinking style. The authors then provide instructions on implementing this solution, as well as recommendations on future extensions.

Concise Summary: A tailored solution for extracting features from block-based code, with a focus on studying the evolution of computational thinking concepts, studentcharacteristic, and work progress by updating visualizations, charts, and models.

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