## 6.32 C++ example: Domain name validation with vectors

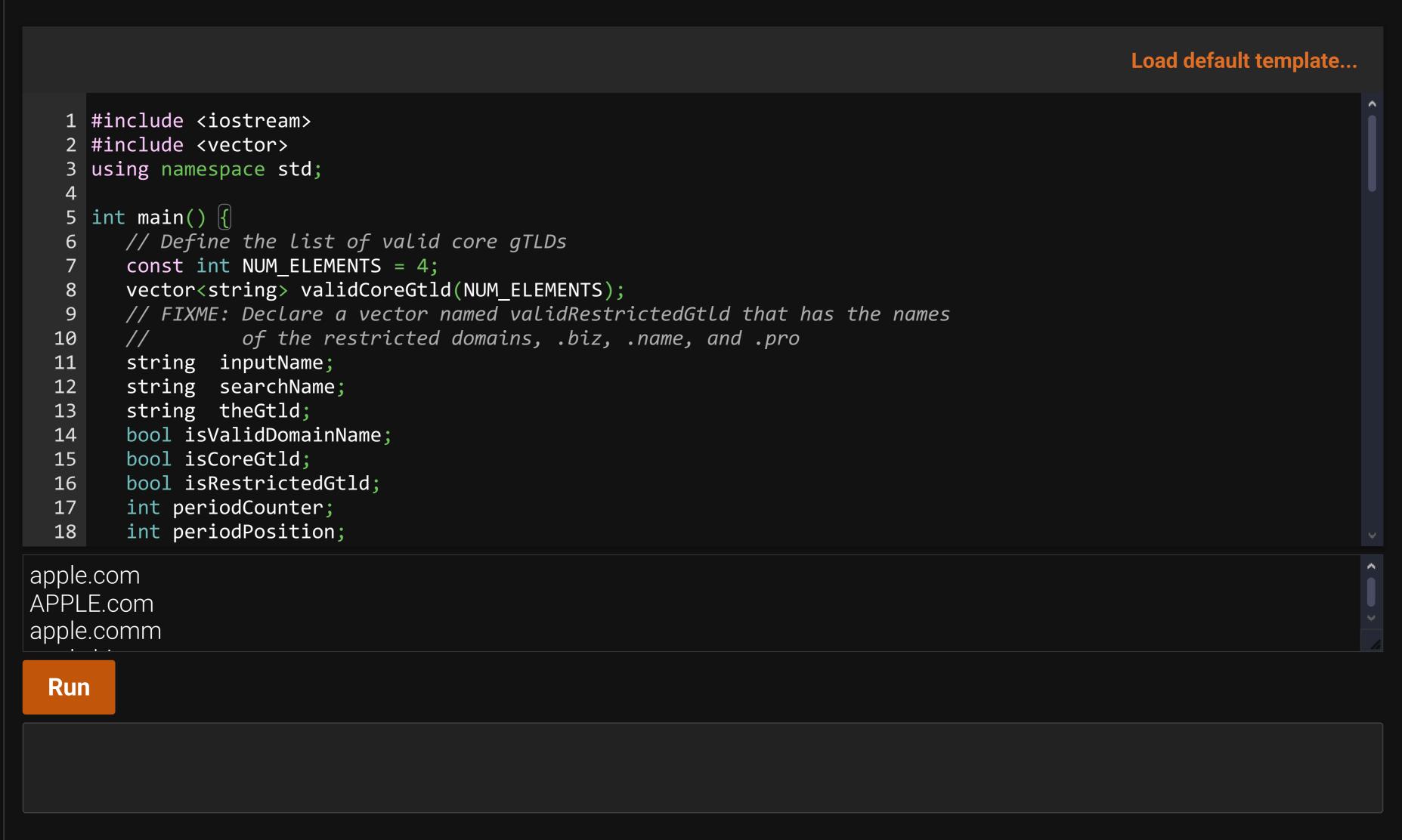
zyDE 6.32.1: Validate domain names with vectors.

Vectors are useful to process lists.

A top-level domain (TLD) name is the last part of an Internet domain name like .com in example.com. A core generic top-level domain (core gTLD) is a TLD that is either .com, .net, .org, or .info. A restricted top-level domain is a TLD that is either .biz, .name, or .pro. A **second-level domain** is a single name that precedes a TLD as in apple in apple.com.

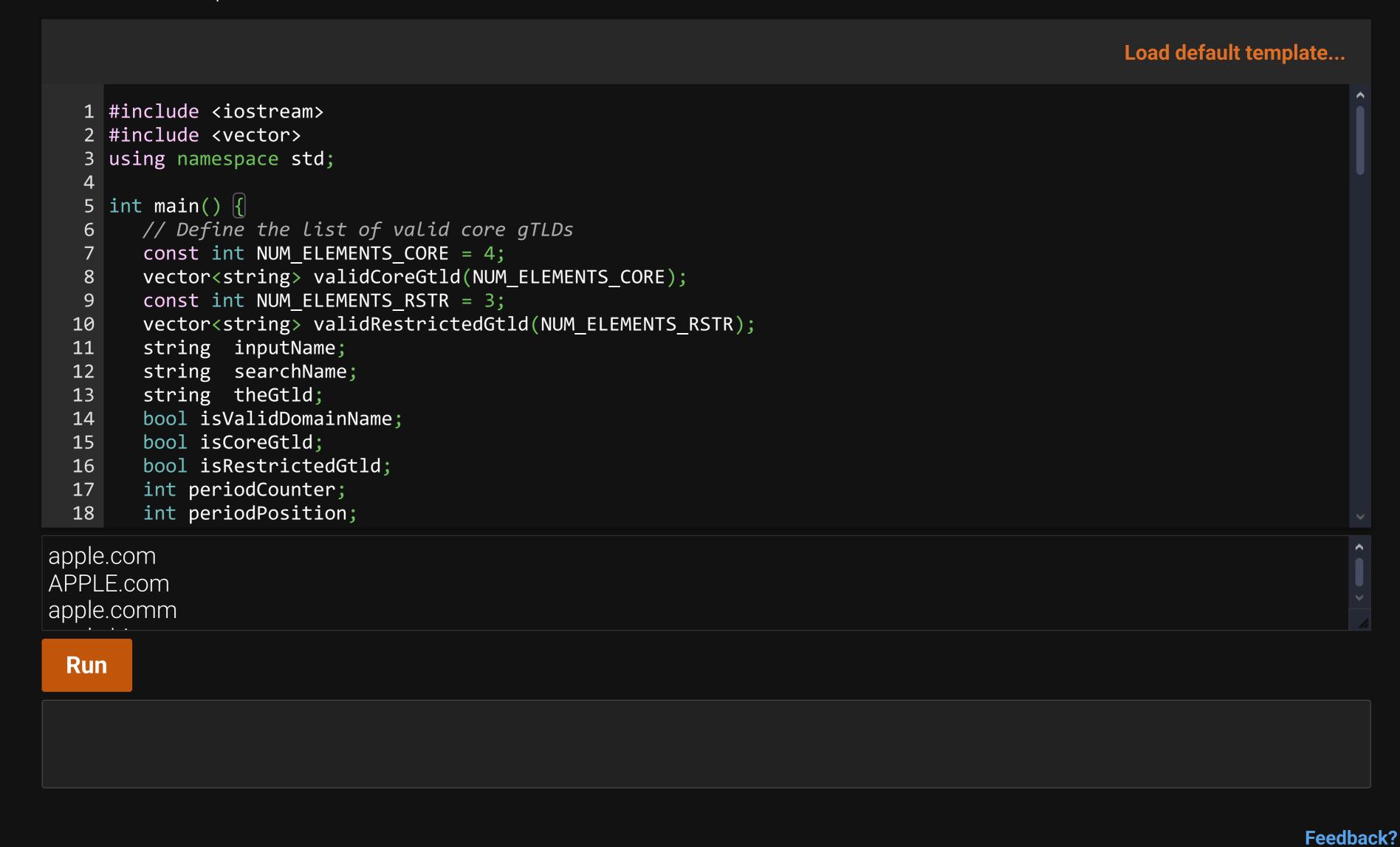
The following program repeatedly prompts for a domain name, and indicates whether that domain name consists of a second-level domain followed by a core gTLD. Valid core gTLD's are stored in a vector. For this program, a valid domain name must contain only one period, such as apple.com, but not support.apple.com. The program ends when the user enters -1.

- 1. Run the program and enter domain names to validate.
- 2. Extend the program to also recognize restricted TLDs using a vector, and statements to validate against that vector. The program should also report whether the TLD is a core gTLD or a restricted gTLD. Run the program again.



## zyDE 6.32.2: Validate domain names with vectors (solution).

A solution to the problem follows.



How was this section?





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