

Variant Type Applications Solutions

std::visit()

- Briefly describe std::visit()
 - std::visit() can be used to access an element
 - It takes a callable object and the element
 - It applies the callable object, with the in-use alternative of the element as argument

Visitor

- What is meant by a "visitor", in the context of std::visit()?
 - The visitor is the callable object which is passed to std::visit()
- How can we obtain a "visitor"?
 - The simplest way is to write a functor
 - The operator () of the functor is overloaded for each alternative type in the variant
- Write a program which creates an std::vector of variants and uses std::visit() to print out the data from each variant