

Benefits of using Iterator

(c) Describe the benefits of applying the “Iterator” design pattern in this solution (in 5 sentences or less).

Iterator helps us iterate through the elements of the given collection easily. Its benefits are that there is no need for a user who is using a collection of objects to know how its underlying system is designed. Iterator will work perfectly even if the length of the object change.

Considering the design of BitVector, representing integers by bits saves a lot of space. But it wouldn't be easy for a third person to iterate through the elements. But with the help of iterator, he don't need to understand how it is stored; `hasAnotherElement ()` and `nextElement()` methods are the only method he should be aware about.