Coding Review

Encoding and decoding

The process of converting data into other forms is called **encoding.** The data that undergoes the process of encoding is known as **encoded data**. The process where the encoded data is reverted to its original form is called **decoding.**

Here are some reasons for string coding.

1. **Data Compression**: we can use string coding algorithms to save disk space. String data can be encoded so that it takes less space than previously required. This process is referred to as Data Compression.
2. **Cryptography**: this is the process of encoding data into unrecognisable clumps to hide its actual meaning from unwanted eyes. The encoded clumps can then be converted back into their original form when needed.
3. **Error Control**: using the properties of the data being used, we can generate additional values that help us check whether the original data has been changed and where those changes were made. This allows us to find and fix errors that occur during data transfer.