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                              C++ Assign1.cpp > \mathfrak{D} generateHammingCode(string)
                                     #include <iostream>
          C++ Assign1.cpp
                                     #include <string>
          C++ Assign2.cpp
          C++ Assign3.cpp
                                     using namespace std;
                                     int calculateParity(string data) {
                                       int parity = 0;
for (char bit : data) {
  parity ^= (bit - '0');
string generateHammingCode(string data) {
                                       int data_bits = data.length();
                                18
                                       for (int i = 2; i <= data_bits + 1; i *= 2) {
      > OUTLINE
                                       string encoded_data(data_bits + r, '0');
      > TIMELINE
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                                 C++ Assign1.cpp > \mathfrak{D} generateHammingCode(string)
                                        string generateHammingCode(string data) {
           C++ Assign1.cpp
           C++ Assign2.cpp
                                           for (int i = 0; i < encoded_data.length(); i++) {</pre>
           C++ Assign3.cpp
                                               encoded_data[i] = '0';
                                               encoded_data[i] = data[j++];
string parity_bits;
                                             for (int j = 0; j < encoded_data.length(); j++) { if ((j + 1) & (i + 1) != 0 && (j + 1) & (encoded_data.length() - i) != 0) {
                                                 parity_bits += encoded_data[j];
                                             encoded_data[i] = (char)(calculateParity(parity_bits) + '0');
(8)
                                           return encoded_data;
      > OUTLINE
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                                           string data word:
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