|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Input | | | Expected Output | Output | Comments |
| Keyword | Ignored Character | Message |
| BREAK | J | COMPUTERSCIENCE | HIISTUREPFMBIGE | HIISTUREPFMBIGE | The example in the spec |
| BREAK | J | JCOMP | JHIIS | JHIIS | Seeing how the unencrypted letter is dealt with, the unencrypted letter can affect the encryption of letters around it depending on its position. |
| BREAK | J | CJOMP | CJOMP | CJOMP |
| BREAK | J | COJMP | HIJIS | HIJIS |
| BREAK | J | COMJP | HIMJP | HIMJP |
| BREAK | J | COMPJ | HIISJ | HIISJ |
| BREAK | J | JCJOJMJPJ | JCJOJMJPJ | JCJOJMJPJ |
| BREAK | J | JJJJJ | JJJJJ | JJJJJ |
| BREAK | J | JJCOMP | JJHIIS | JJHIIS |
| <null> | J | COMP | Error | Error | Checking null handling |
| BREAK | <null> | COMP | Error | Error |
| BREAK | J | <null> | <empty string> | <empty string> |
| break | j | comp | HIIS | HIIS | Checking for correct handling of lower case |
| bReAk | j | cOmP | HIIS | HIIS |
| BBEEK | J | COMP | Error | Error | Checking some invalid inputs throw errors properly |
| BREAK | 4 | COMP | Error | Error |
| BREAKT | J | COMP | Error | Error |
| BREAK | B | COMP | Error | Error |
| BR1EAK12 | J | COMP | HIIS | HIIS | Non alphanumeric characters and spaces are deleted from the keyword and message as they cannot be encoded. |
| BREAK | J | CO M1P123 | HIIS | HIIS |
| BREAK | JR | COMP | HIIS | HIIS | The ignored character input only takes the first character so the R does not matter. |
| SKUNC | J | COMP | HSIT | HSIT | Checking that a different keyword, message and ignored character works fine |
| BREAK | I | COMP | HJJS | HJJS |
| BREAK | J | EBINS | BENIS | BENIS |
| BREAK | J | COM | HIM | HIM | Checking that an odd message length is handled. |
| SKUNC | T | EBINS | BEJUS | BEJUS | All three different at once |
| BREAK | J | T | T | T | Checking what happens with a single character. |