## Live Programming for Validation

```
Suggestion 2
     def dominant_bigram(s):
                                                                                                           Preview
         Return the most common bigram in string s.
                                                                                                                res = \{\}
         111
                                                                             {'ag': 0}
                                                                                                                s = s.lower()
                                                                                                                for i in range(0, len(s)):
         res = ''
                                                                                                                    if s[i] in res:
         bigrams = {}
                                                                                                                        res[s[i]] += 1
         for i in range(0, len(s) - 1):
10
                                                                                                                    else:
             bigram = s[i] + s[i + 1]
11
                                                                                                                        res[s[i]] = 1
             if bigram not in bigrams:
12
                                                                                                                print(res)
                  bigrams[bigram] = 0
13
                                                                                                                for i in res.keys():
             bigrams[bigram] += 1
14
                                                                     6 {'ag': 2, 'gc': 1, 'ct': 1, 'ta': 2, 'gt': 1}
                                                                                                                    if res[i] < 2:
15
         max_value = max(bigrams.values())
                                                                    max_value
                                                                                                                         res.pop(i)
         for bigram in bigrams:
16
                                                                                                                print(res)
             if bigrams[bigram] == max_value:
17
                  res = bigram
18
                                                                         res
19
         ## ---
                                                                                                           Suggestion 3
                                                                        'ag'
20
21
         return res
                                                                                                           Preview
22
                                                                      3 'ta'
                                                                                                                res = ''
23
                                                                      4
                                                                                                                bigrams = \{\}
     dominant_bigram("agctagta")
                                                                                                                for i in range(0. len(s) -1):
```

## Study: Effects of Live Programming on Validation