

Facit och kommentarer till prov 2022-02-18 i DA2004

Del A: flervalfrågor

1. *D*
2. *A*
3. *B, E*
4. *B*
5. *C*
6. *E*
7. *E*
8. *D*
9. *C*
10. *B*

Del B: kodfrågor

11. `assert sve2rovar("t") == 'tot', f"Returned {sve2rovar('t')}"`

```
12. def sve2rovar(s):
    r = ''
    for c in s:
        if c == ' ':
            raise ValueError("A space was detected in the word")
        if c in 'aeiouyåäö':
            r += c
        else:
            r += c + 'o'
    return r

print(sve2rovar("alfab etet"))
```

13. Möjlig lösning:

```
def read_simple_csv(f):
    d = {}
    for line in open(f, 'r'):
        k, v = line.strip().split()
        d[k] = v
    return d
```

14. A. Felet är att variabeln *i* inte inkrementeras, så man får en oändlig loop. Här är en fix:

```
def underscore_index(s):
    i = 0
    while i < len(s):
        if s[i] == '_':
            return i
        i += 1
    raise ValueError
```

B. Om *s* inte innehåller något understreck.

```
15. A. def assess_word_guess(answer, guess):
    assert len(answer) == 5
    assert len(guess) == 5
    colors = ''
    for idx, c in enumerate(guess):
        if answer[idx] == c:
            colors += 'G'
        elif c in answer[:idx] or c in answer[idx+1:]:
            colors += 'g'
        else:
            colors += ' '
    return colors

B. def colored_result(word, coloring):
    colored_output = ''
    for char, color in zip(word, coloring):
        if color == 'G':
            colored_output += f'[green]{char}[/green]'
        elif color == 'g':
            colored_output += f'[yellow]{char}[/yellow]'
        else:
            colored_output += char
    return colored_output

16. class Wordle:
    def __init__(self, secret_word):
        '''Konstruktorn för 15A'''
        self.word = secret_word

    def feedback_on_guess(self, guess):
        '''För 15B'''
        coloring = assess_word_guess(self.word, guess)
        print(coloring)

    def play(self):
        '''Och för 15C'''
        for i in range(5):
            guess = input('Guess the 5-letter word: ')
            self.feedback_on_guess(guess)
            if guess == self.word:
                print('Bravo!')
                return
        print('Bummer, you missed. The word is "{self.word}.".')

# Lite testkod är alltid bra!
w1 = Wordle('SAMMA')
w1.play()
print()
w2 = Wordle('MATTE')
w2.play()
```