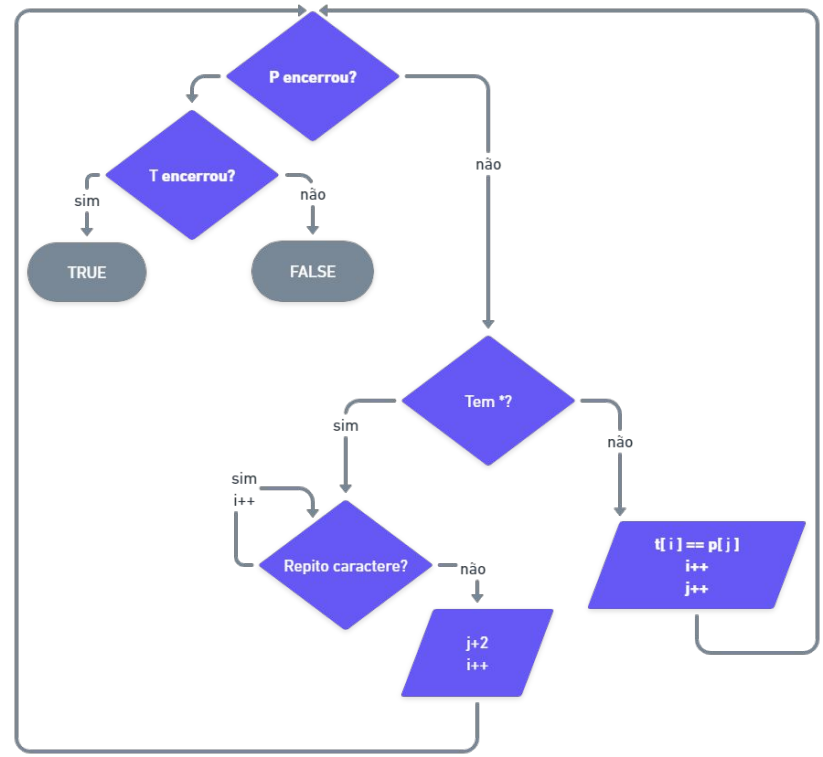
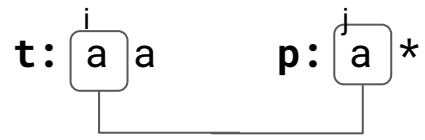


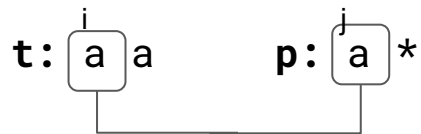
Simulação

Regular Expression Matching

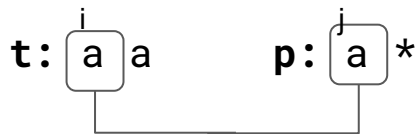
Teste 1

t: ⁱa a p: ^ja *





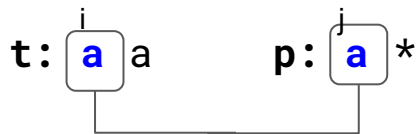
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
```



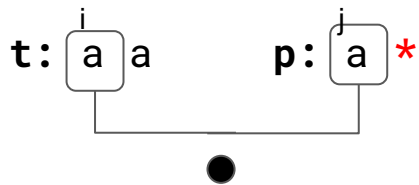
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
```



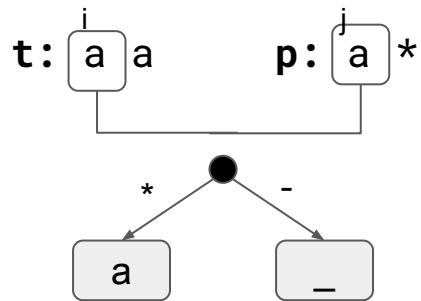
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = (i < len(text) and pattern[j] in {text[i],
6.         '.'})
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
```



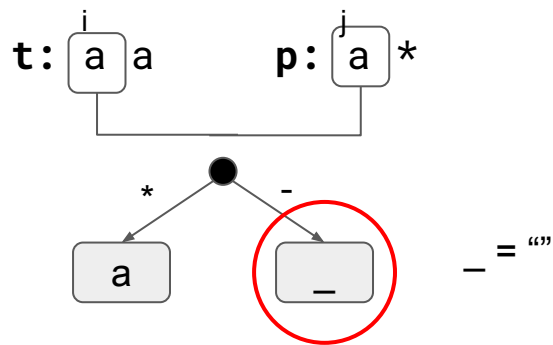
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
```



```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. TRUE first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else:
9.         return first_match and match(i+1, j+1)
```

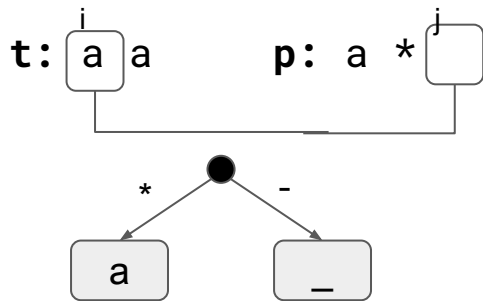
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. TRUE first_match = i < len(text) and pattern[j] in {text[i],
6.     '.'}
7.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.         return match(i, j+2) or (first_match and match(i+1,
9.         j))
10.    else:
11.        return first_match and match(i+1, j+1)
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. TRUE first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else:
9.         return first_match and match(i+1, j+1)

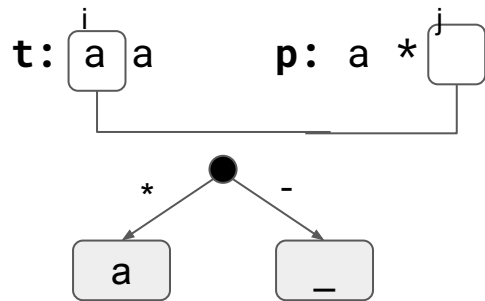
```



```

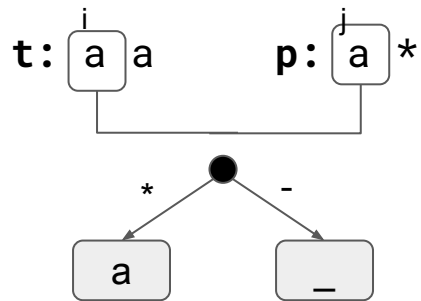
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

```

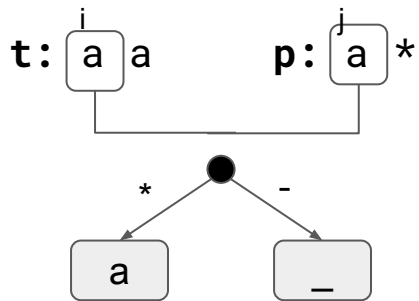


1. `def match(i: int, j: int) -> bool:`
 2. `if (j == len(pattern)):`
 3. `return (i == len(text))`
 4. `else:`
 5. `first_match = i < len(text) and pattern[j] in {text[i],`
 6. `'.'}`
 7. `return match(i, j+2) or (first_match and match(i+1,`
 8. `j))`
 9. `else:`
 10. `return first_match and match(i+1, j+1)`

A large red 'X' is drawn over the code, indicating an error or a correction needed.



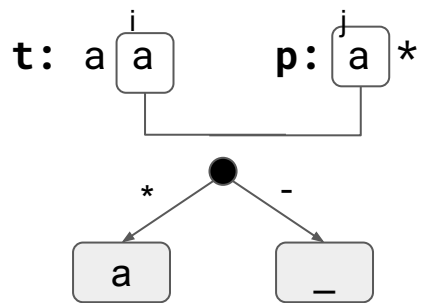
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True first_match = i < len(text) and pattern[j] in {text[i],
6.     '.'}
7.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.         return match(i, j+2) or (first_match and match(i+1,
9.     j))
10.    else:
11.        return first_match and match(i+1, j+1)
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True  first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
        False                                     True
        j))
8.     else:
9.         return first_match and match(i+1, j+1)

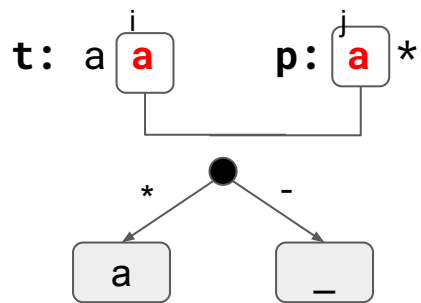
```



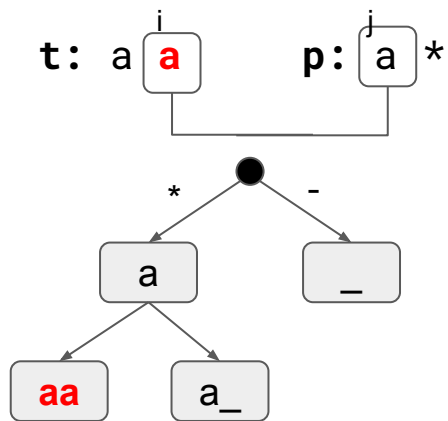
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

```



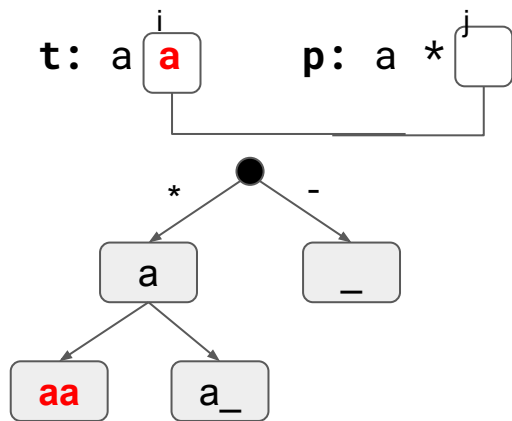
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
   j))
8.         else:
9.             return first_match and match(i+1, j+1)
```

```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9. j))
10.         else:
11.             return first_match and match(i+1, j+1)

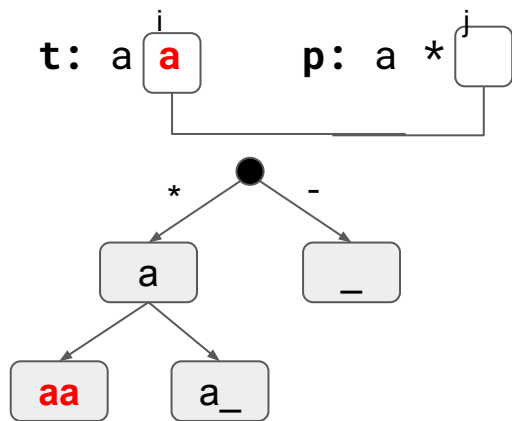
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

```

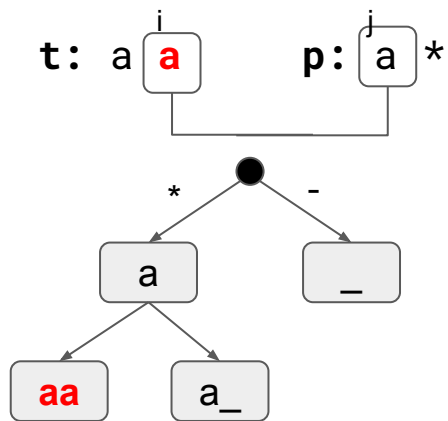


```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

```

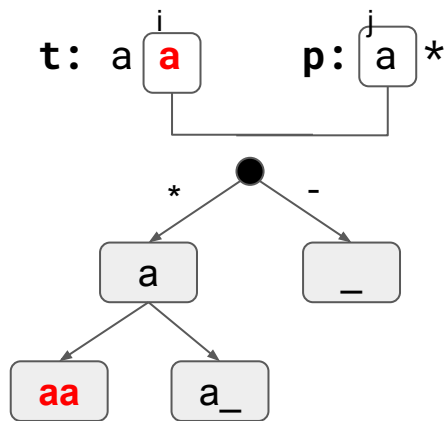
False



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True  first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
False
            j))
8.     else:
9.         return first_match and match(i+1, j+1)

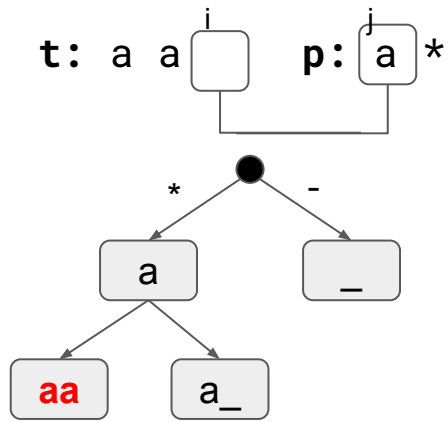
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True  first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
        j))
8.     else:
9.         return first_match and match(i+1, j+1)

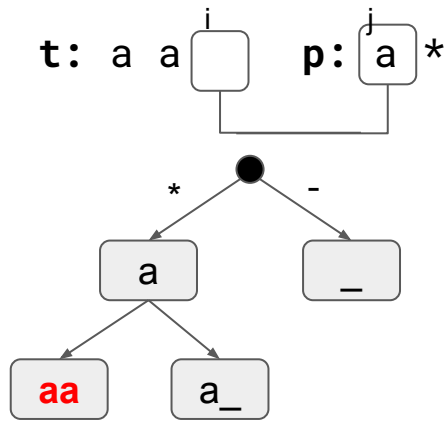
```



```

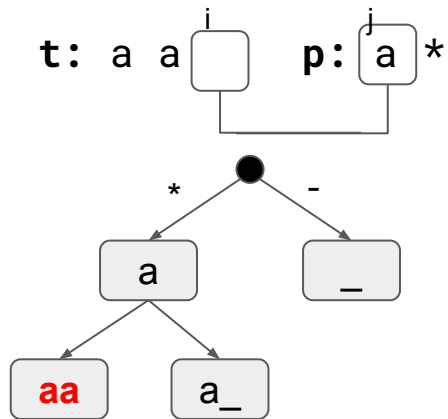
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

```



```

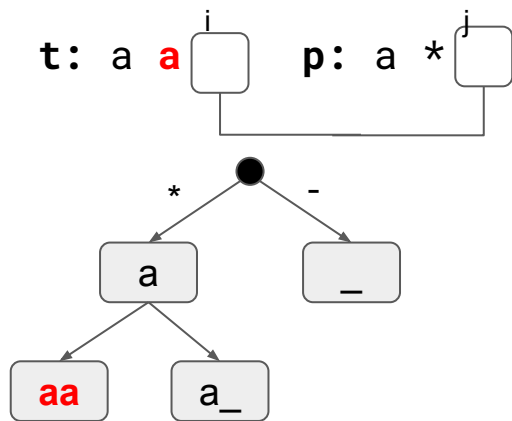
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
   j))
8.         else:
9.             return first_match and match(i+1, j+1)
  
```



```

1.  def match(i: int, j: int) -> bool:
2.      if (j == len(pattern)):
3.          return (i == len(text))
4.      else:
5.  False    first_match = i < len(text) and pattern[j] in {text[i],
              '.'}
6.          if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.              return match(i, j+2) or (first_match and match(i+1,
              j))
8.          else:
9.              return first_match and match(i+1, j+1)

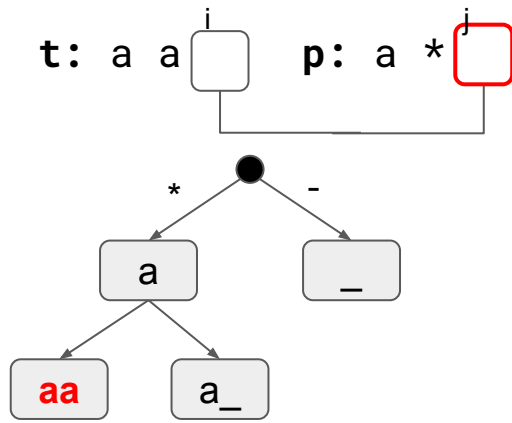
```

```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

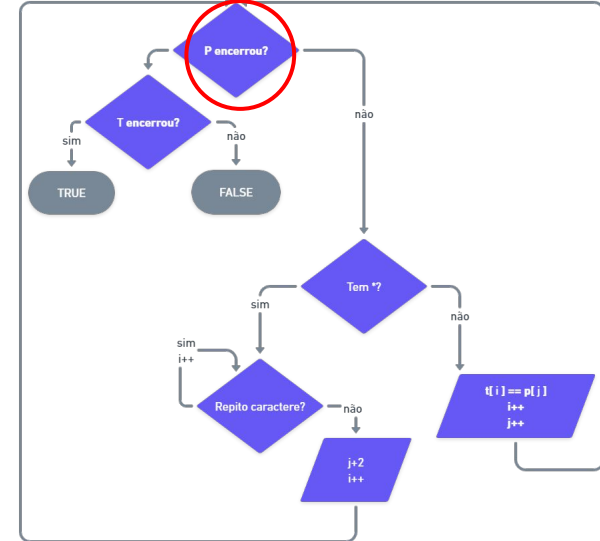
```

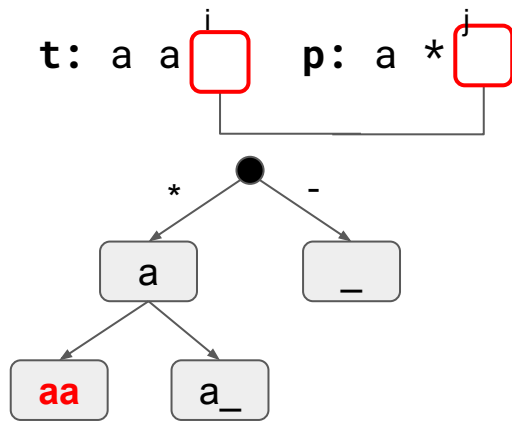


```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         return match(i, j+2) or (first_match and match(i+1,
8.         j))
9.     else:
10.        return first_match and match(i+1, j+1)

```

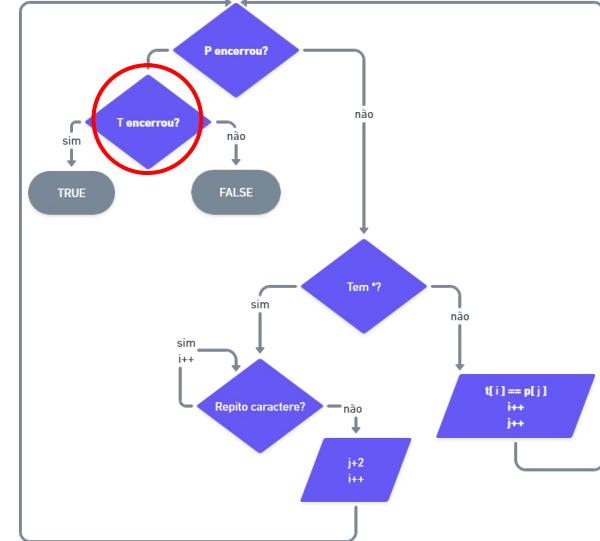


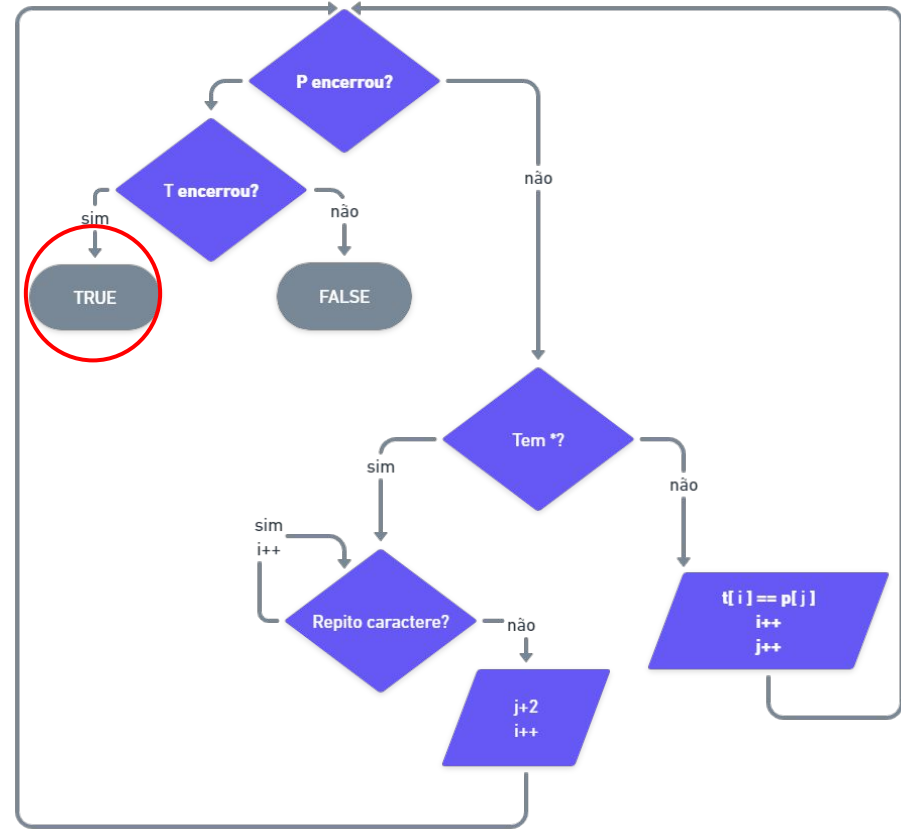
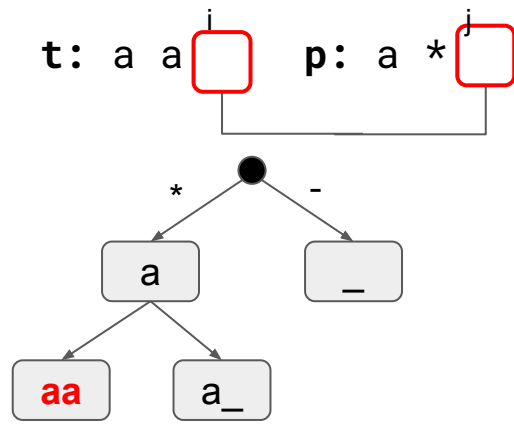


```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

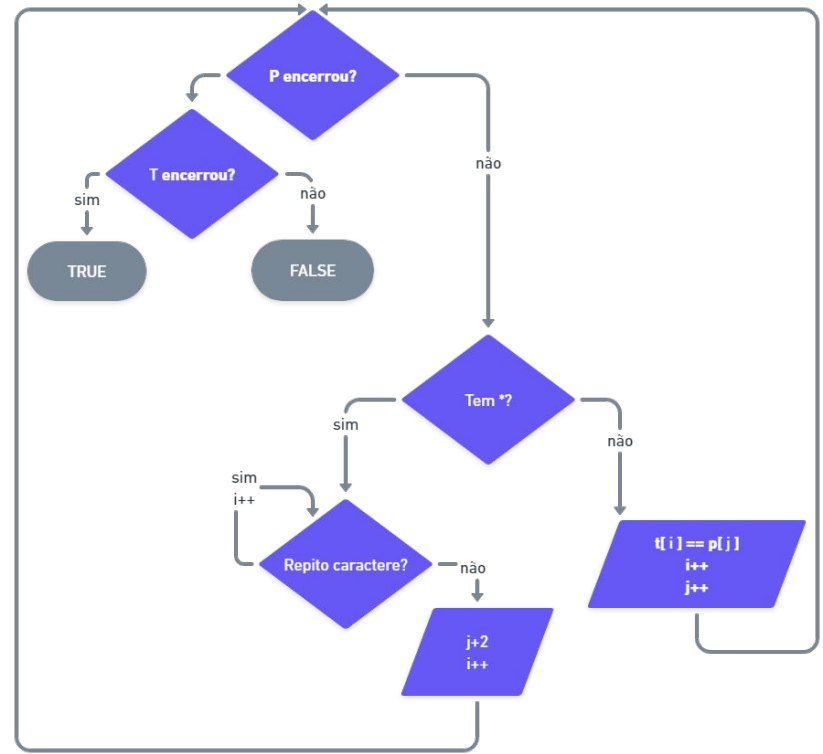
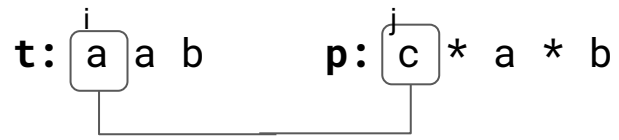
```

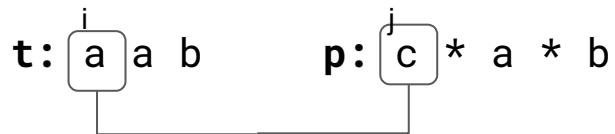




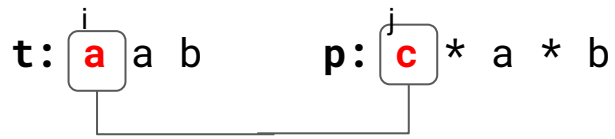
Teste 2

t: ⁱa a b p: ^jc * a * b

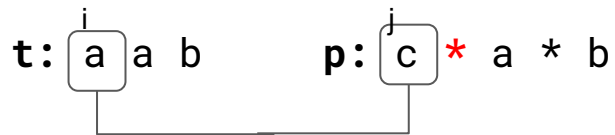




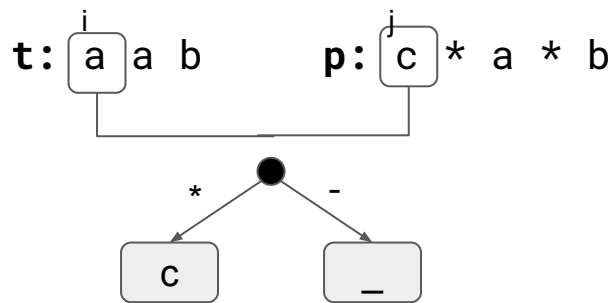
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
```



```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
   j))
8.         else:
9.             return first_match and match(i+1, j+1)
```

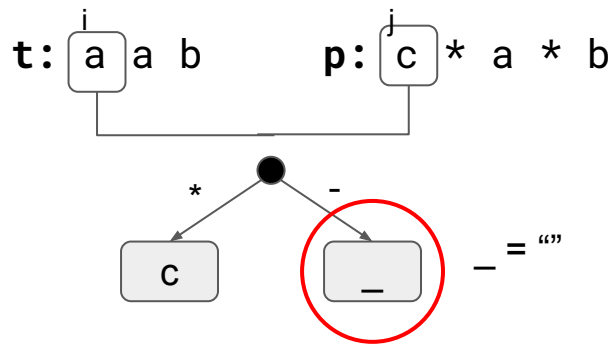
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. False   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(1, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             return first_match and match(i+1, j+1)
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9. j))
10.         else:
11.             return first_match and match(i+1, j+1)

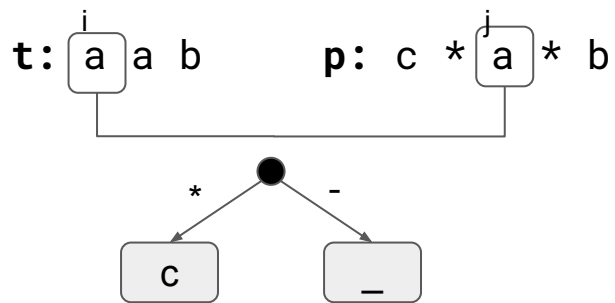
```



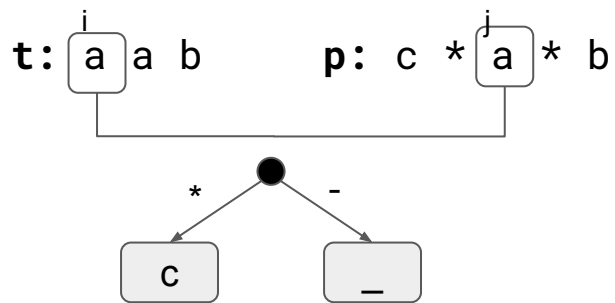
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. False   first_match = i < len(text) and pattern[j] in {text[i],
        ' '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             return first_match and match(i+1, j+1)

```



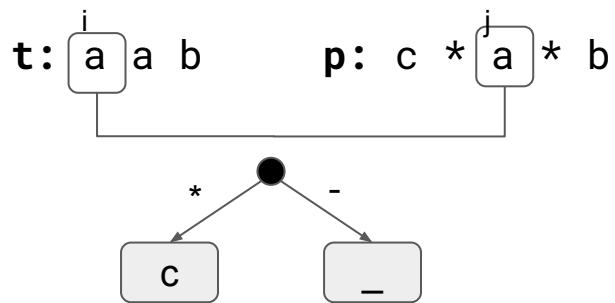
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

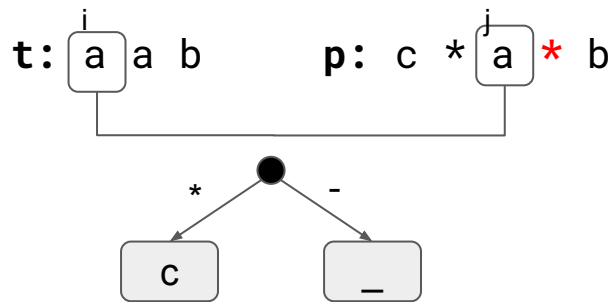
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             return first_match and match(i+1, j+1)

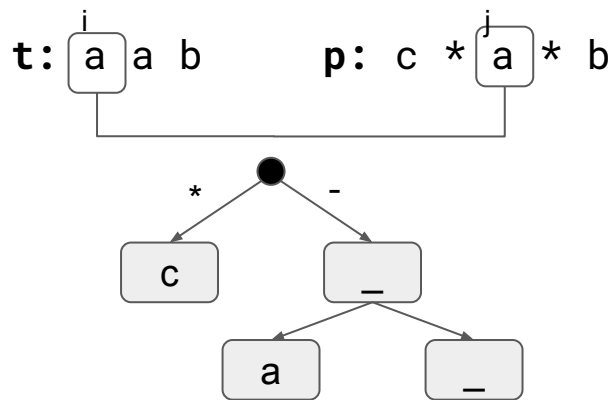
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.       if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.           return match(1, j+2) or (first_match and match(i+1,
            j))
8.       else:
9.           return first_match and match(i+1, j+1)

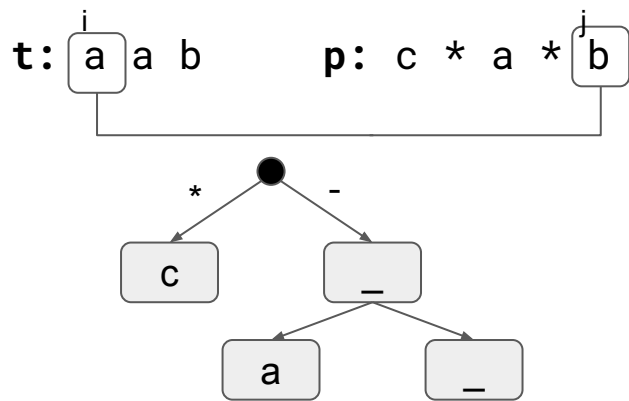
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             return first_match and match(i+1, j+1)

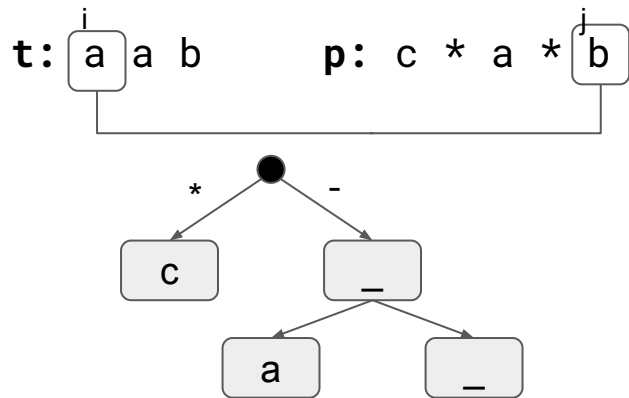
```

```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

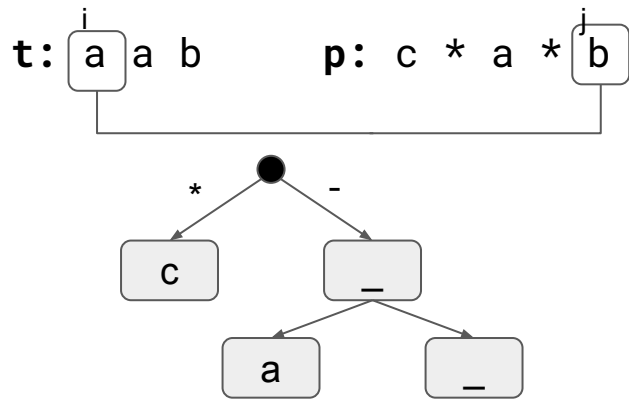
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

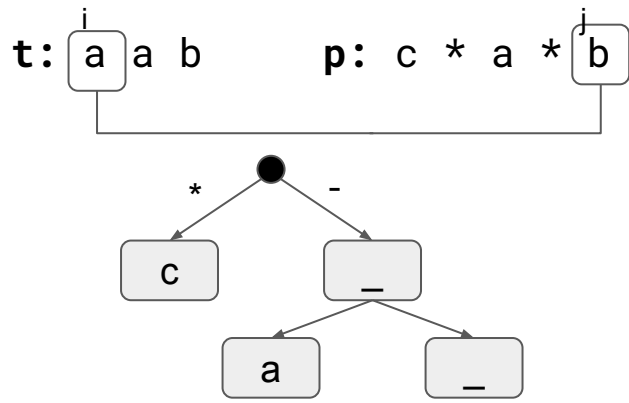
```



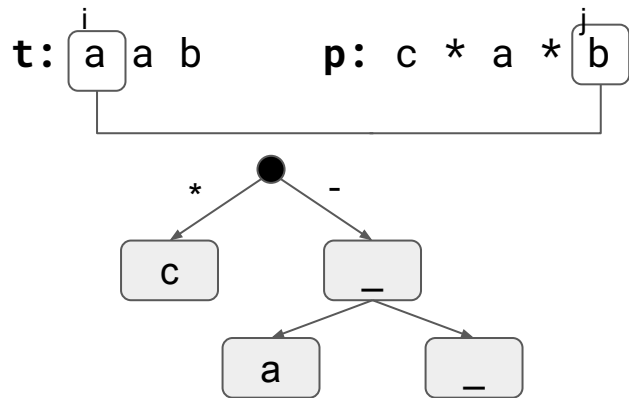
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else:
9.         return first_match and match(i+1, j+1)

```



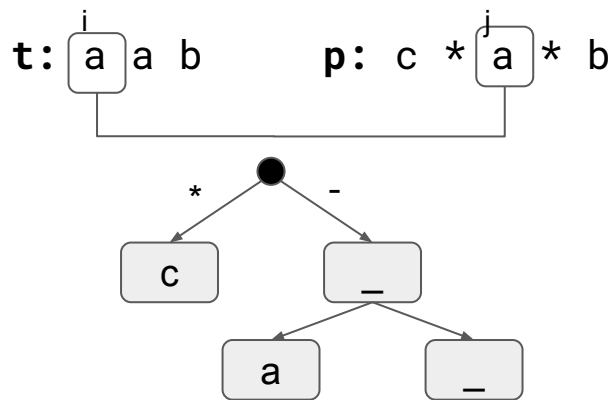
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
8.         j))
9.     else:
10.         return first_match and match(i+1, j+1)
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
8.     else:
9.         return first_match and match(i+1, j+1)

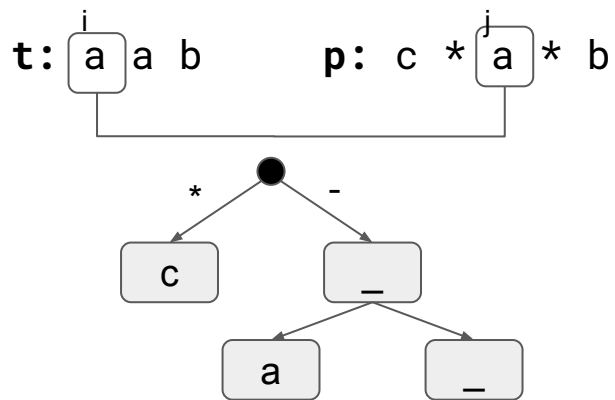
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.       if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
            j))
            False
8.     else:
9.         return first_match and match(i+1, j+1)

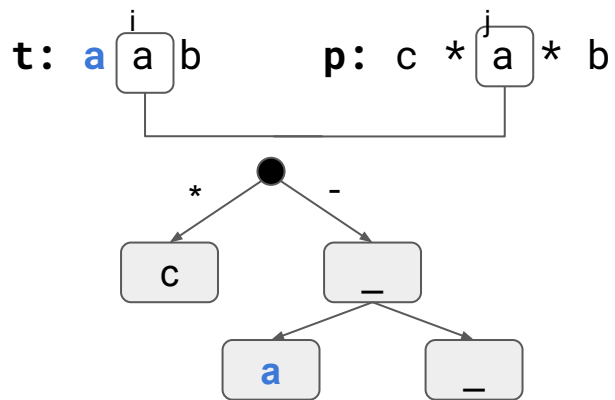
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        ' ' }
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
                False           True
                j))
8.         else:
9.             return first_match and match(i+1, j+1)

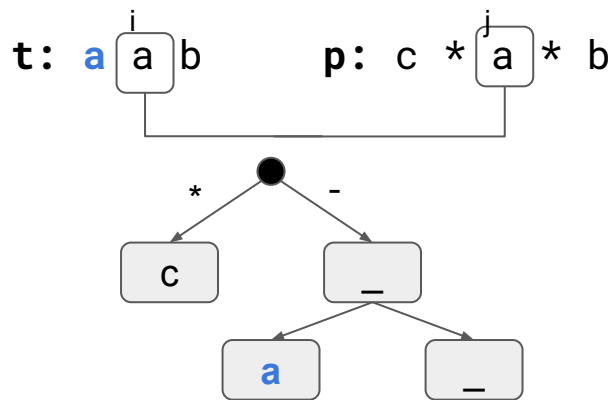
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

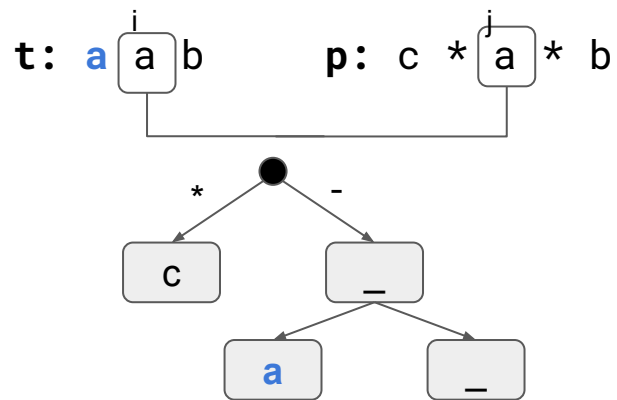
```

```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

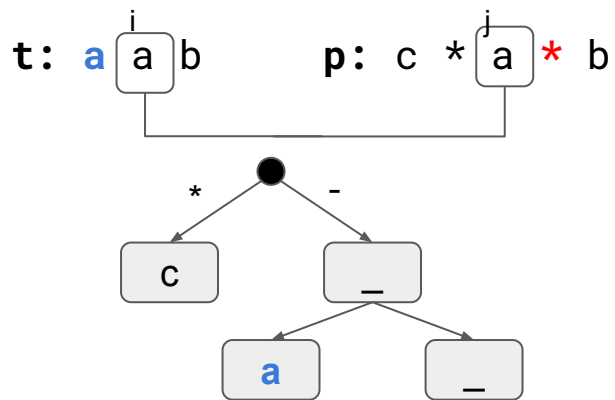
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else:
9.         return first_match and match(i+1, j+1)

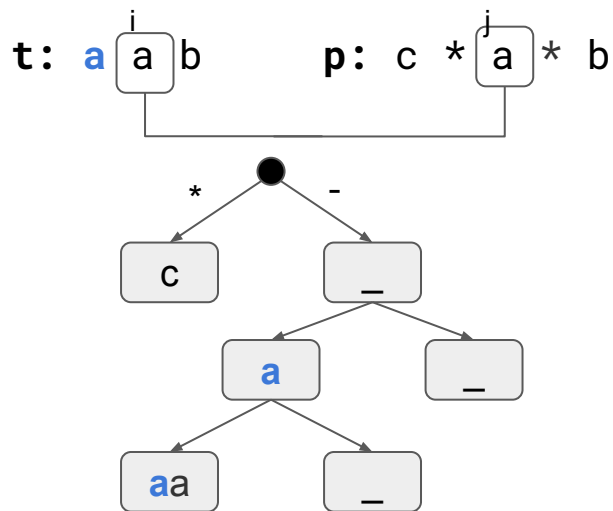
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.       if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.           return match(i, j+2) or (first_match and match(i+1,
            j))
8.       else:
9.           return first_match and match(i+1, j+1)

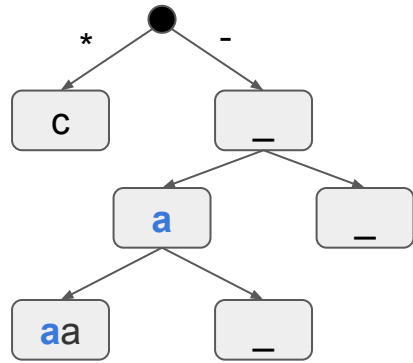
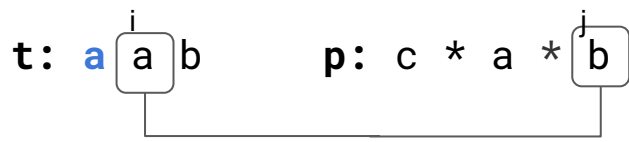
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             return first_match and match(i+1, j+1)

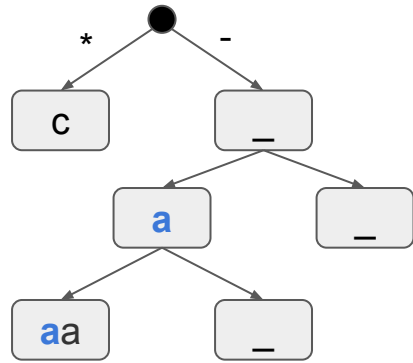
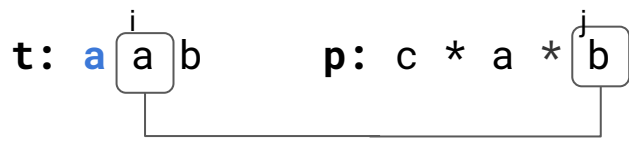
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

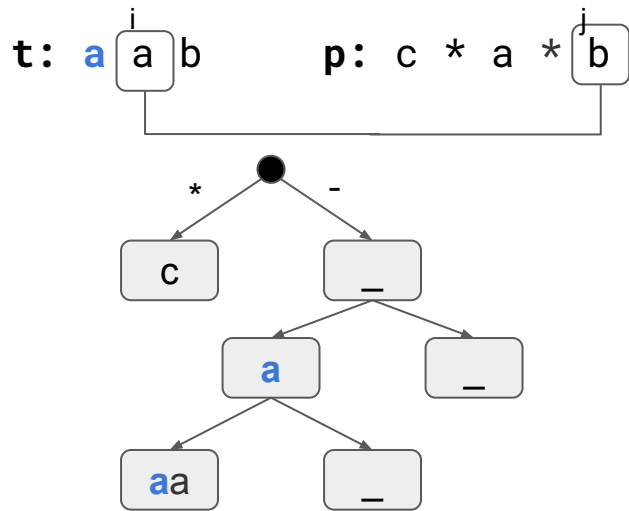
```



```

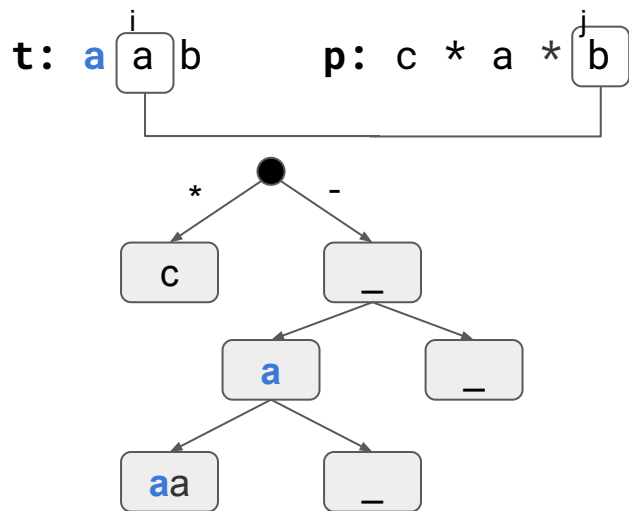
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

```



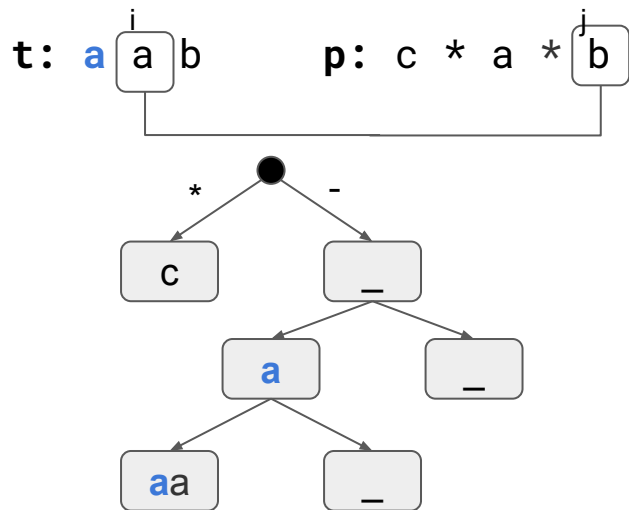
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else:
9.         return first_match and match(i+1, j+1)
  
```



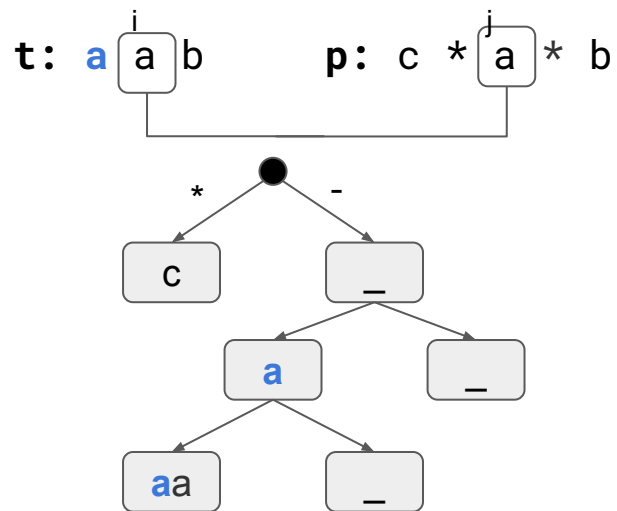
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
8.         j))
9.     else:
10.         return first_match and match(i+1, j+1)
  
```

```

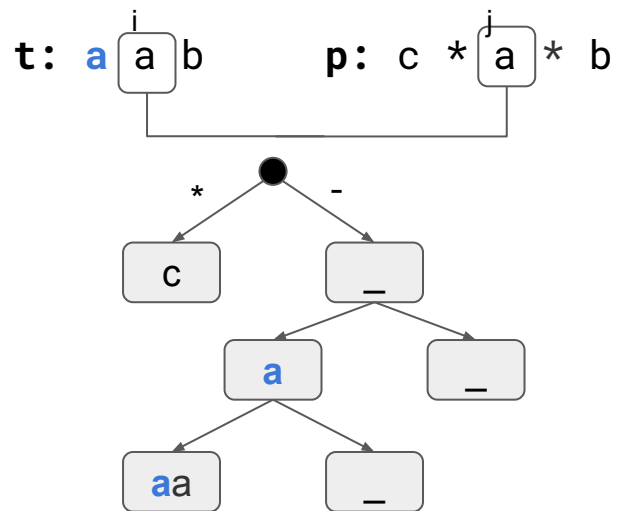
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else: False
9.     return first_match and match(i+1, j+1)
  
```



```

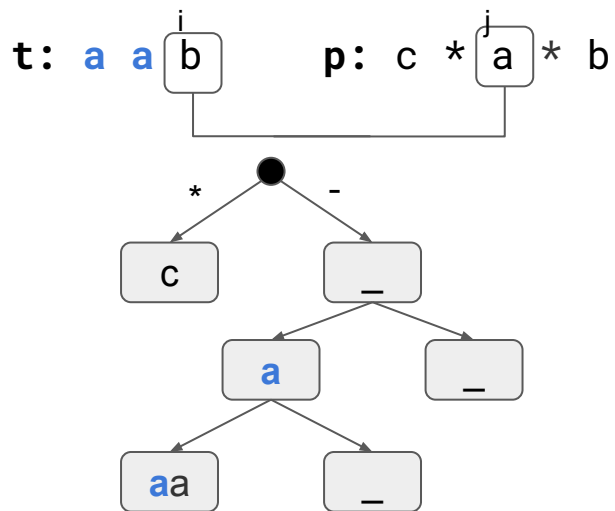
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
False
            j))
8.         else:
9.             return first_match and match(i+1, j+1)

```



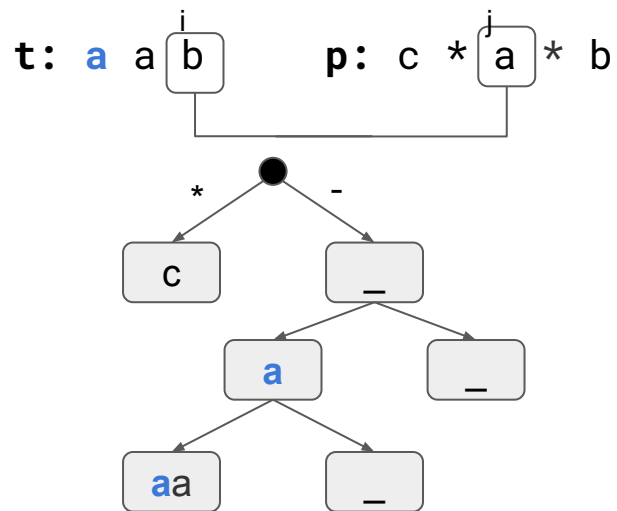
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.       if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
        False      True
        j))
8.     else:
9.         return first_match and match(i+1, j+1)
  
```



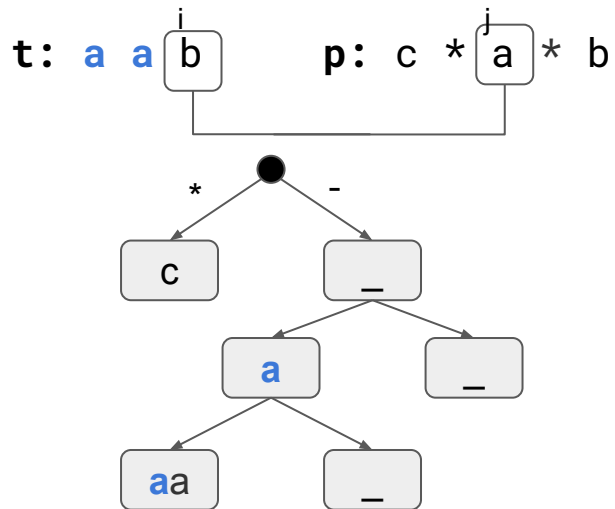
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
  
```



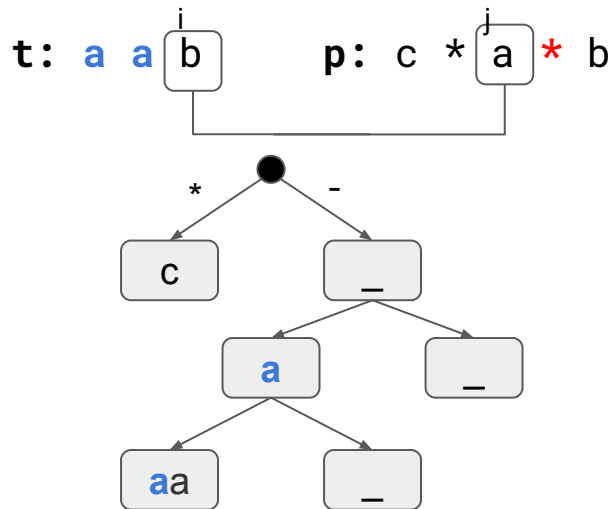
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
  
```



```

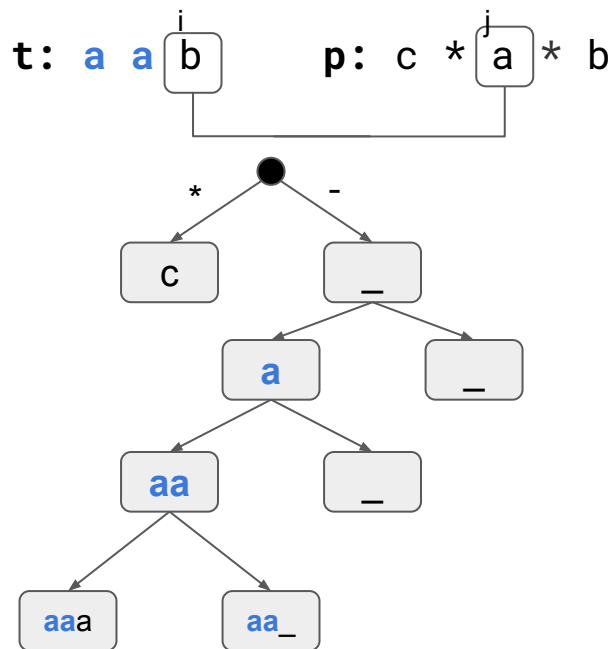
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else:
9.         return first_match and match(i+1, j+1)
  
```



```

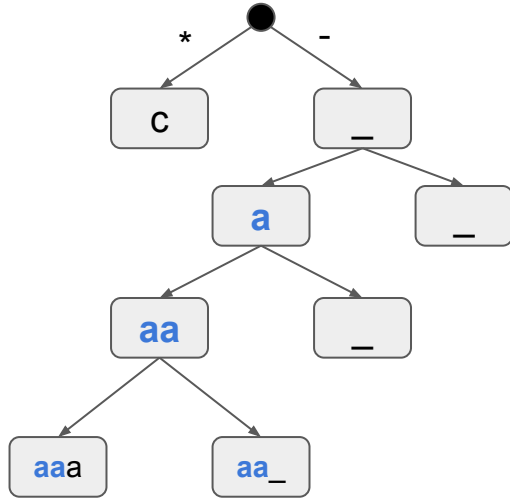
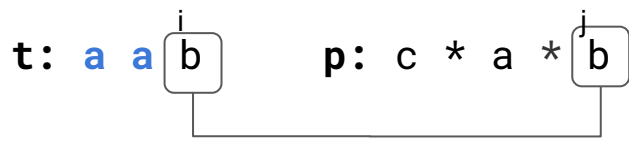
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else:
9.         return first_match and match(i+1, j+1)

```



```

1. def match(i: int, j: int) -> bool:
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   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else:
9.         return first_match and match(i+1, j+1)
  
```

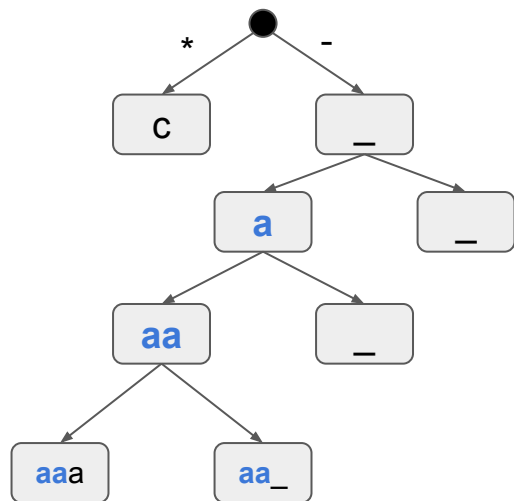



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

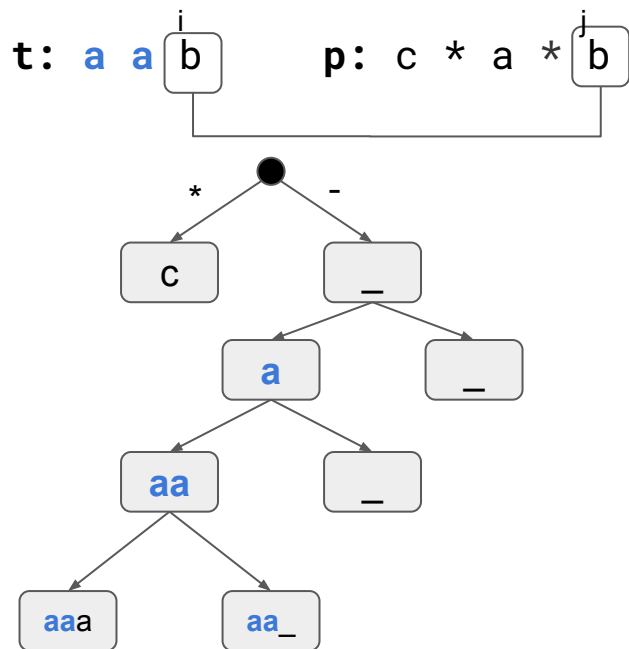
```

t: a a ⁱb p: c * a * ^jb



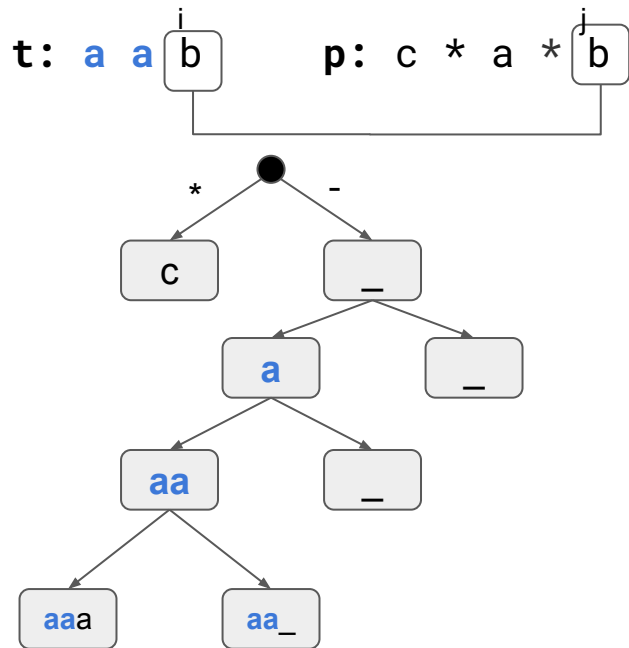
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
  
```



```

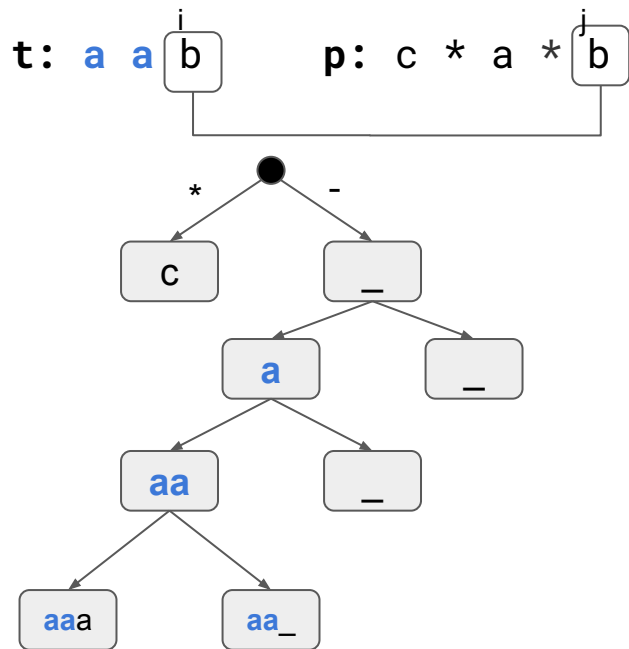
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else:
9.         return first_match and match(i+1, j+1)
  
```



```

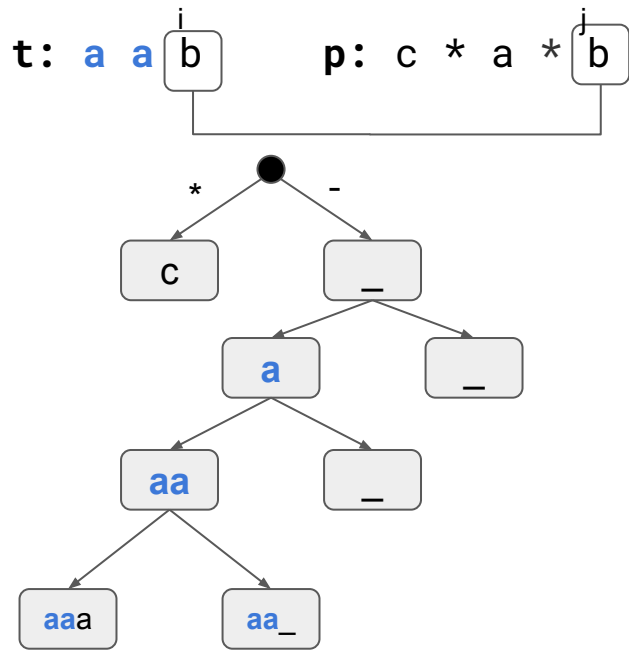
1.  def match(i: int, j: int)-> bool:
2.      if (j == len(pattern)):
3.          return ( i == len(text) )
4.      else:
5.  True    first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.          if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.              return match(i, j+2) or (first_match and match(i+1,
            j))
8.          else:
9.              return first_match and match(i+1, j+1)

```



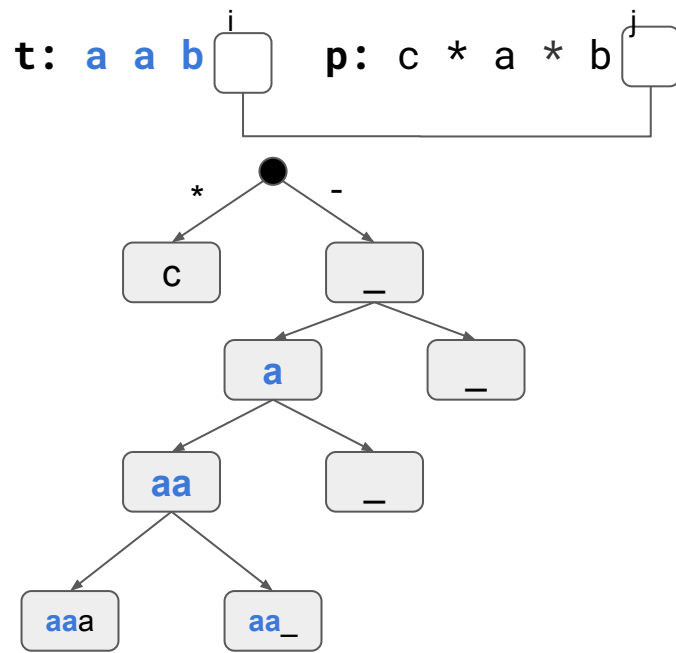
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else: True
9.         return first_match and match(i+1, j+1)
  
```



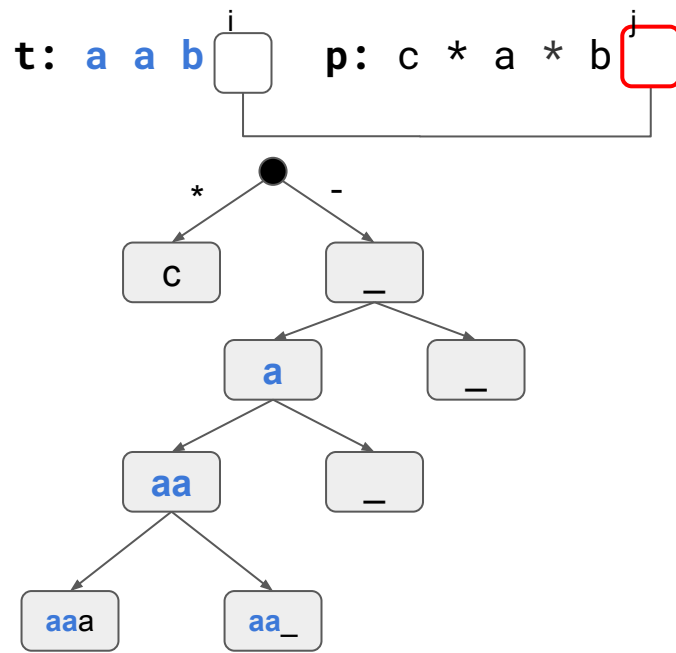
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True     first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             True
            return first_match and match(i+1, j+1)
  
```



```

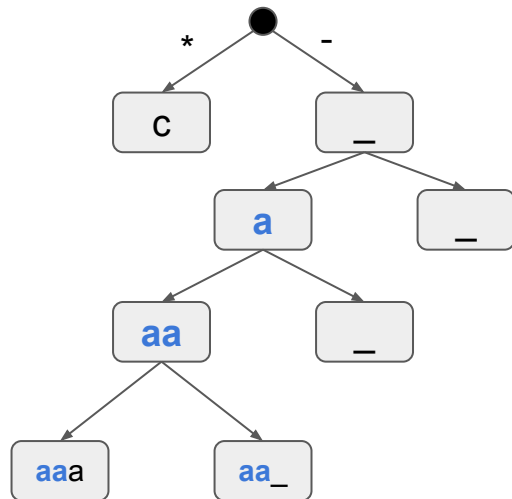
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
  
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
  
```

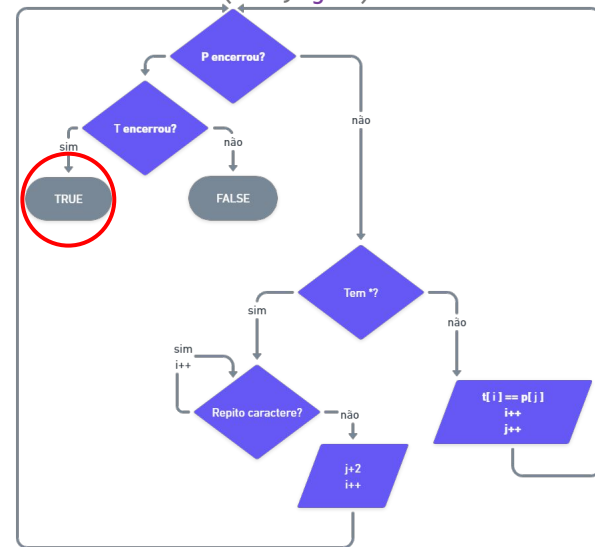

t: a a b i p: c * a * b j



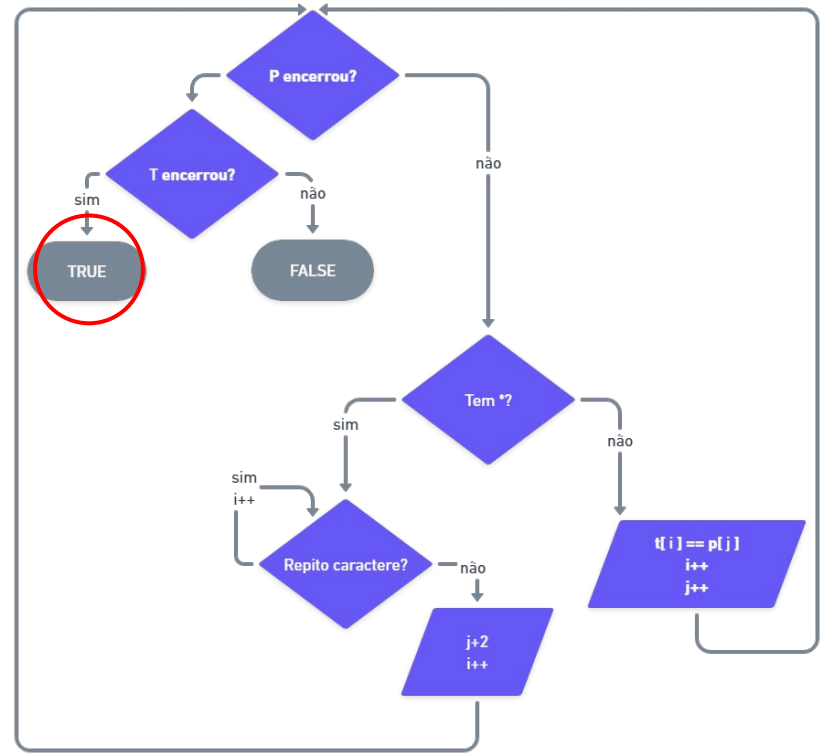
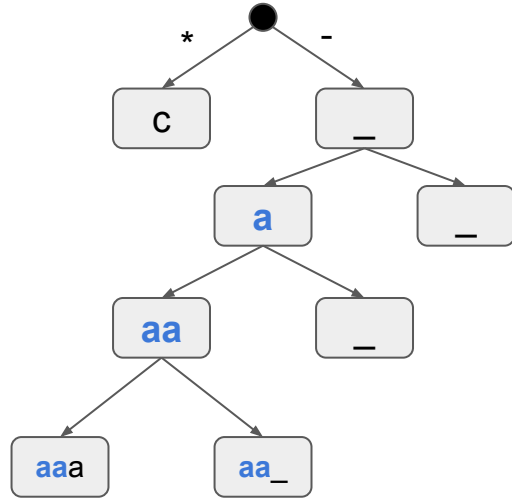
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) ) True
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

```



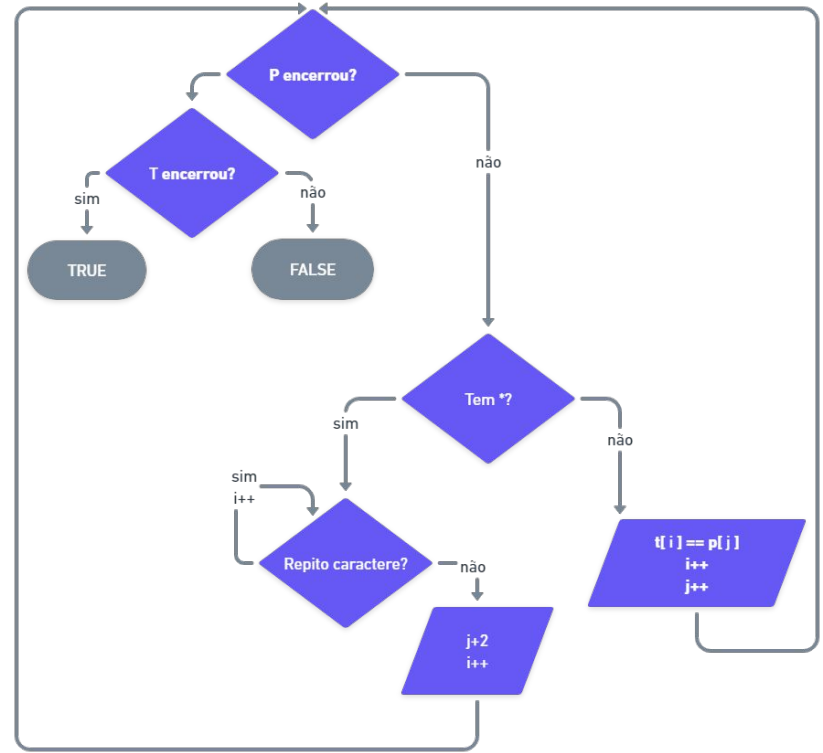
t: a a b p: c * a * b




Teste 3

$t: \boxed{a}^i a a x$
 $p: \boxed{\cdot}^j * a^*$

Ta errado! Ç_Ç)



t: ⁱa a a x p: ^j. * a*

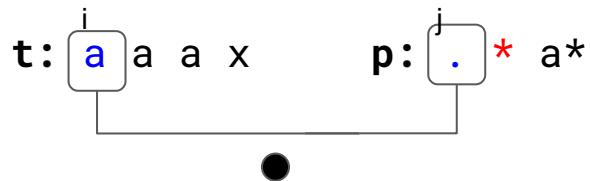


```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
```

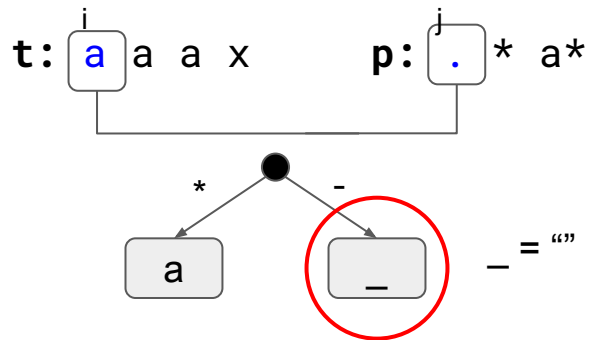
t: ⁱa a a x p: ^j. * a*



```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        ' ' }
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             return first_match and match(i+1, j+1)
```



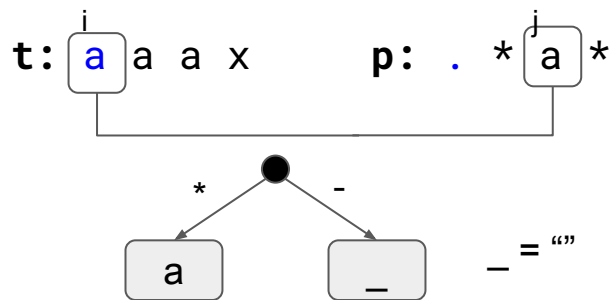
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True     first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             return first_match and match(i+1, j+1)
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        ' '.'}
6.       if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
            j))
8.     else:
9.         return first_match and match(i+1, j+1)

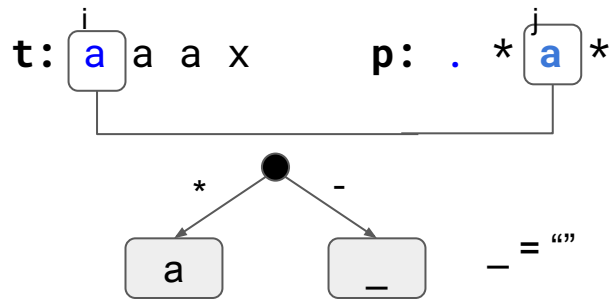
```

```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

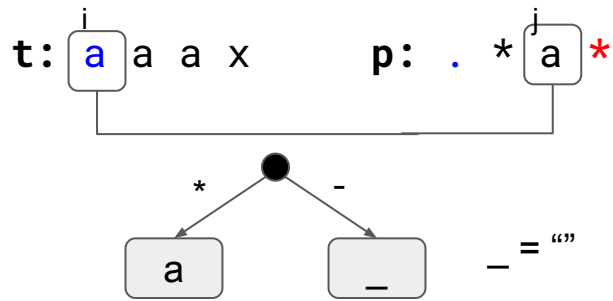
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. TRUE first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
   j))
8.         else:
9.             return first_match and match(i+1, j+1)

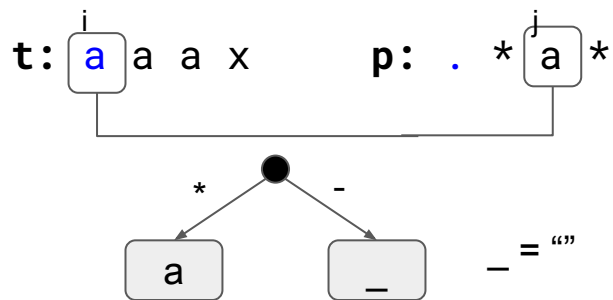
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. TRUE first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else:
9.         return first_match and match(i+1, j+1)

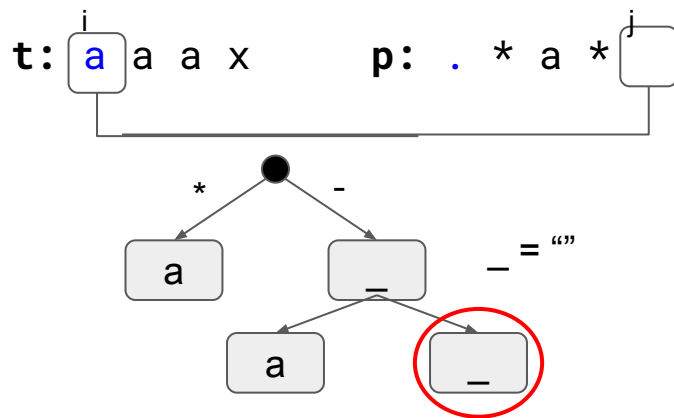
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. TRUE first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else:
9.         return first_match and match(i+1, j+1)

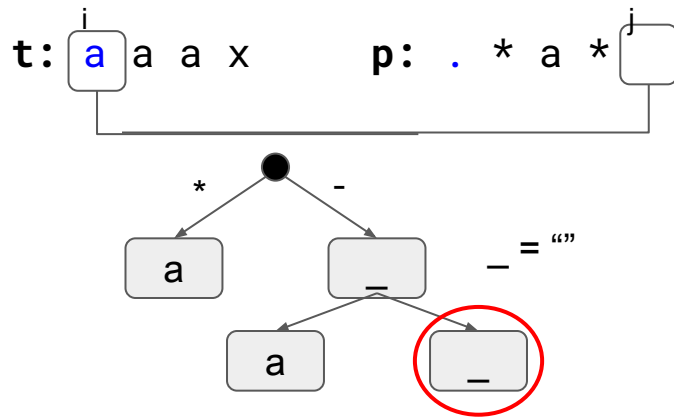
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

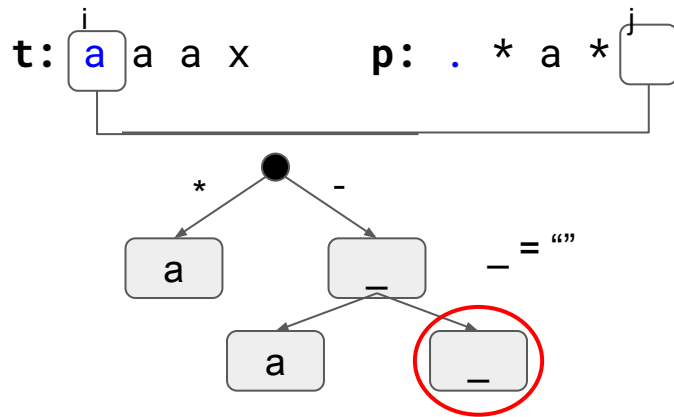
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

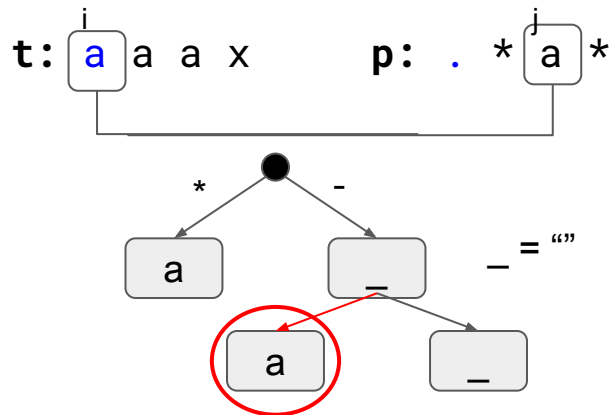
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text)) False
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

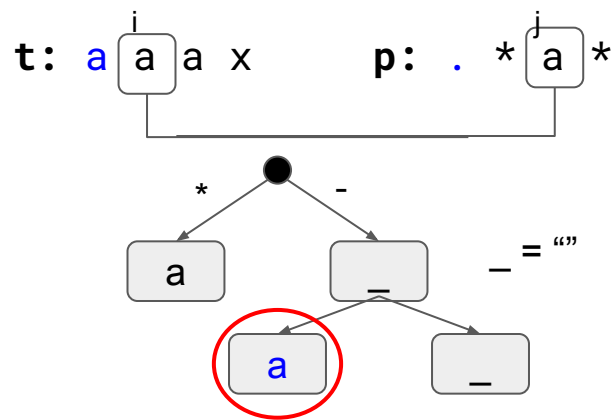
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '. ' }
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
            False           True
            j))
8.         else:
9.             return first_match and match(i+1, j+1)

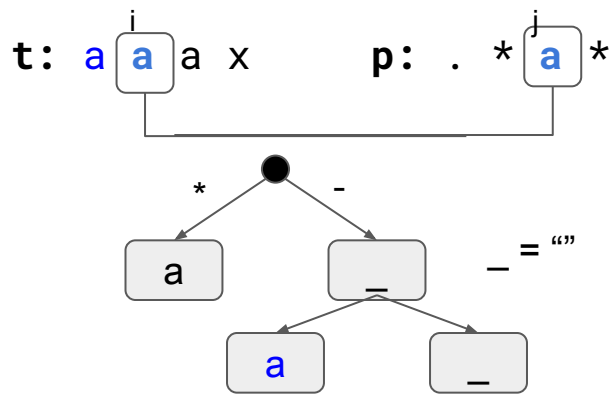
```

```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {'.', '*'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
8. j))
9.         else:
10.            return first_match and match(i+1, j+1)

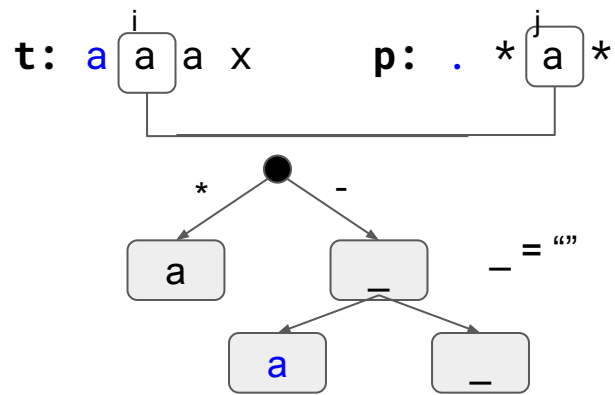
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True first_match = i < len(text) and pattern[j] in {text[i],
   '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
   j))
8.         else:
9.             return first_match and match(i+1, j+1)

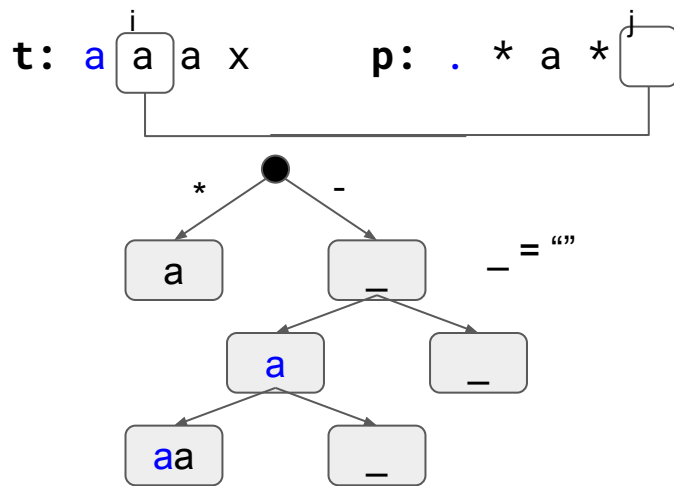
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '. ' }
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             return first_match and match(i+1, j+1)

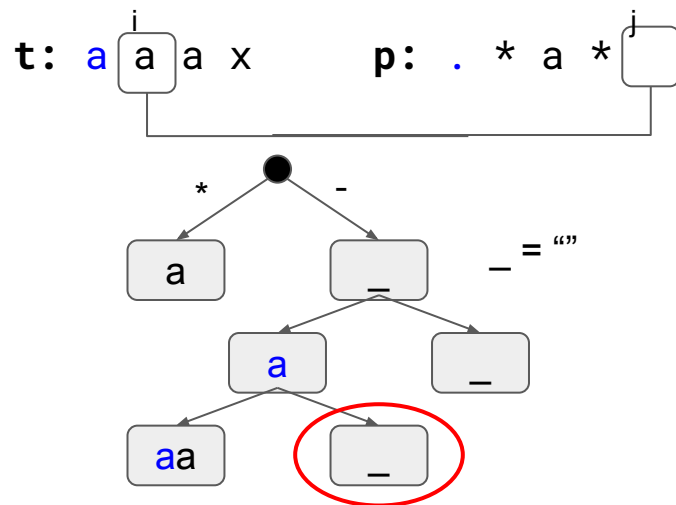
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.             '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.                 j))
9.         else:
10.            return first_match and match(i+1, j+1)

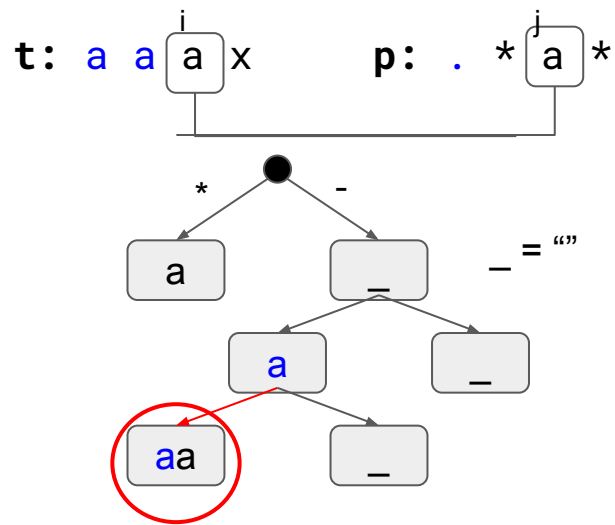
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text)) False
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
9.         else:
10.            return first_match and match(i+1, j+1)

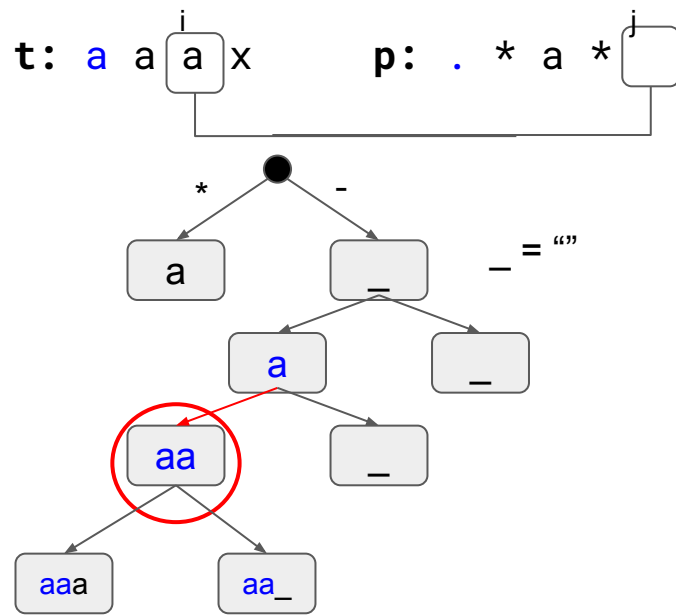
```

```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

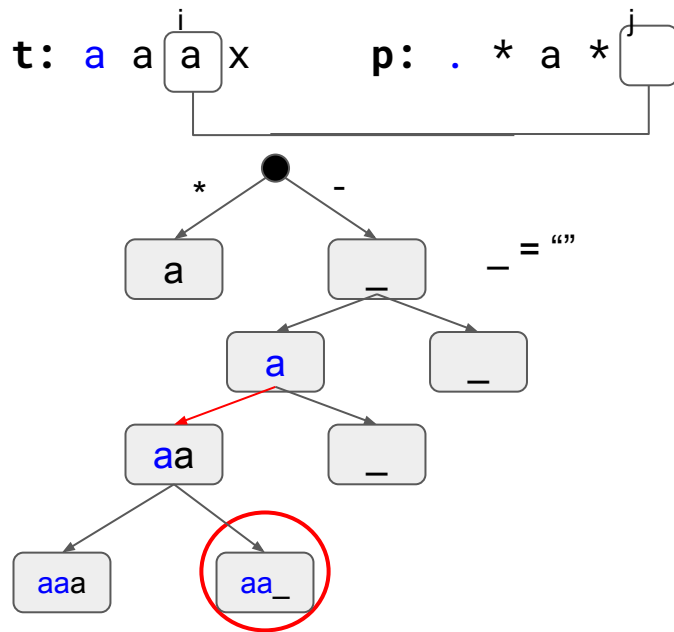
```

```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.             '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.                 j))
9.         else:
10.            return first_match and match(i+1, j+1)

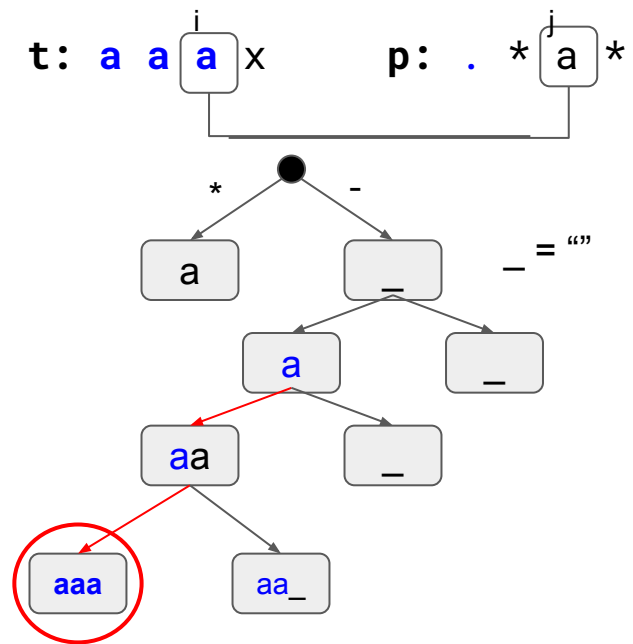
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text)) False
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

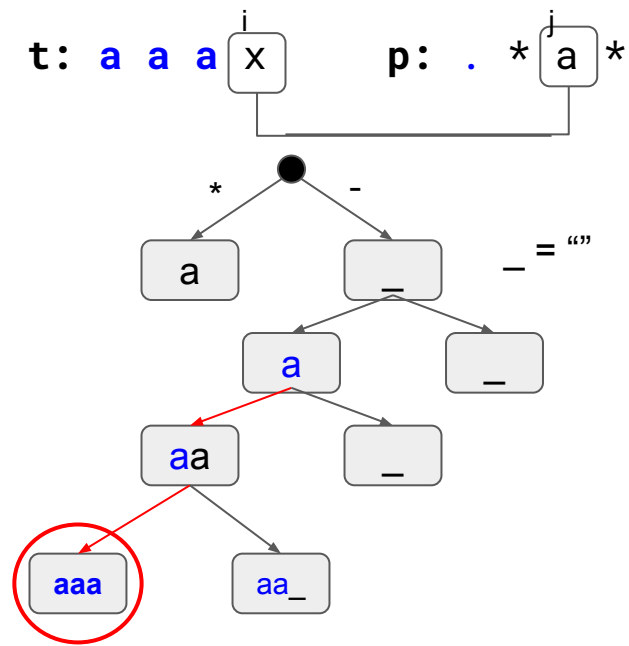
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.       if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.           return match(i, j+2) or (first_match and match(i+1,
            False      True
            j))
8.       else:
9.           return first_match and match(i+1, j+1)

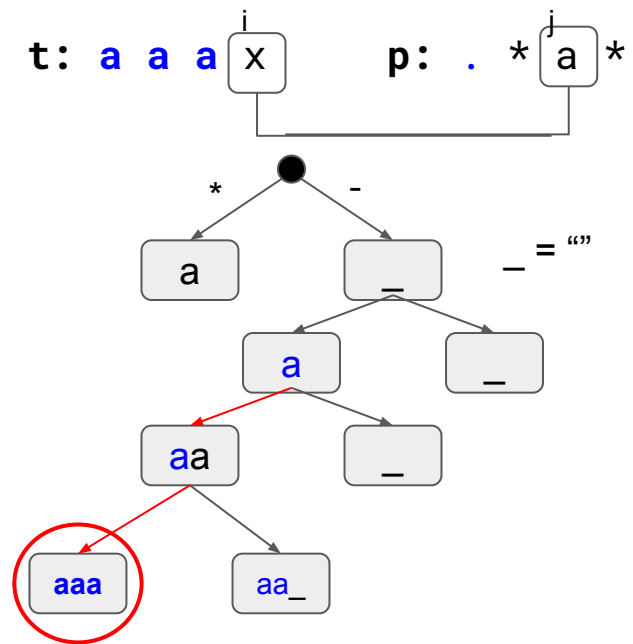
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

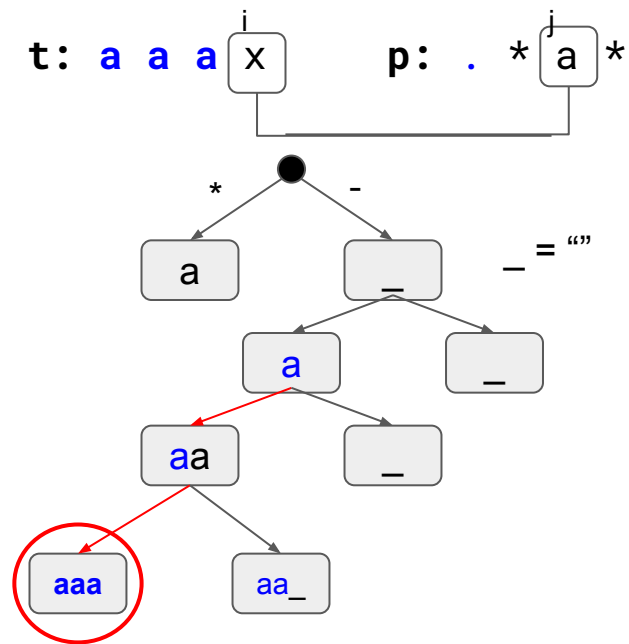
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
6.     '.'}
7.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.         return match(i, j+2) or (first_match and match(i+1,
9.         j))
10.    else:
11.        return first_match and match(i+1, j+1)

```

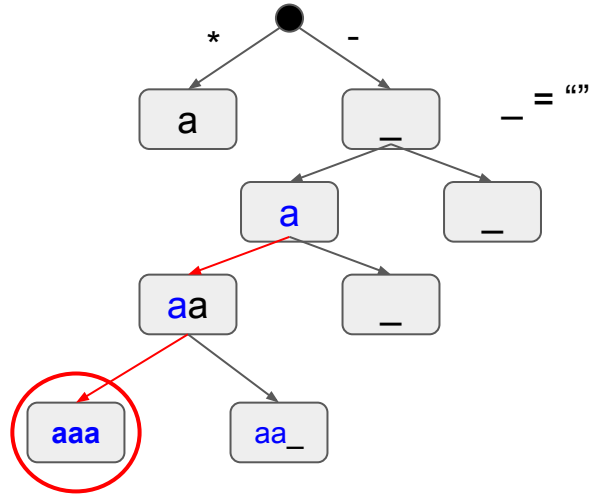


```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
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7.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.         return match(i, j+2) or (first_match and match(i+1,
9.         j))
10.    else:
11.        return first_match and match(i+1, j+1)

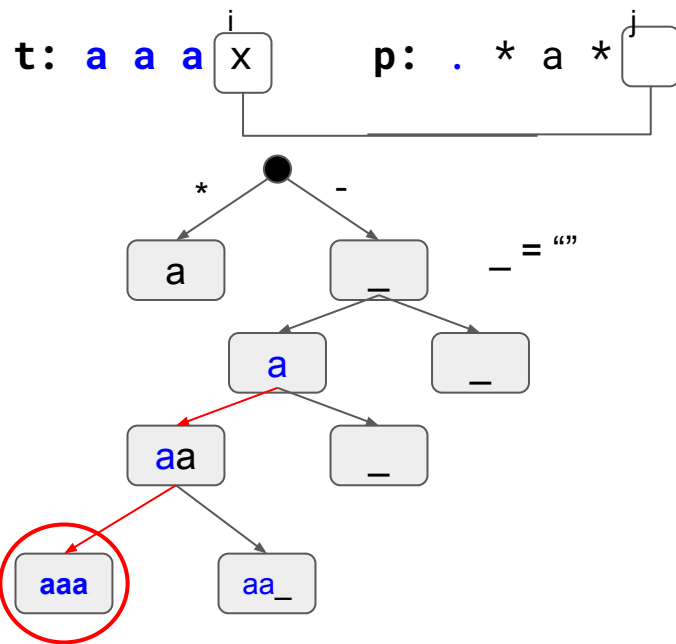
```

t: a a a x p: . * a *



```

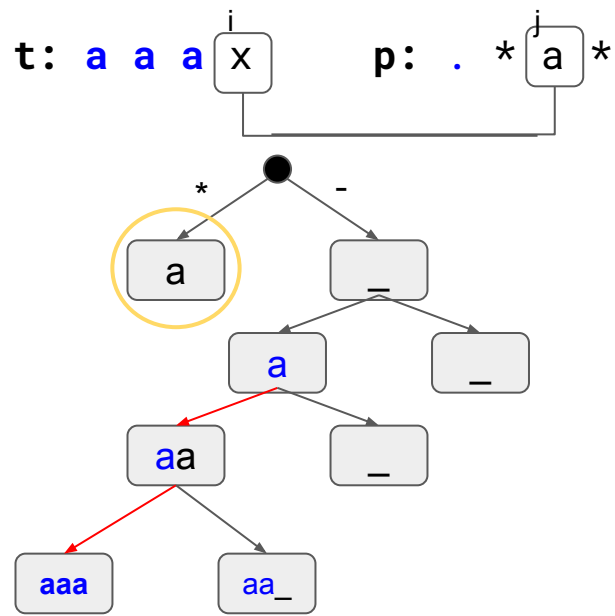
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
  
```



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) ) False
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

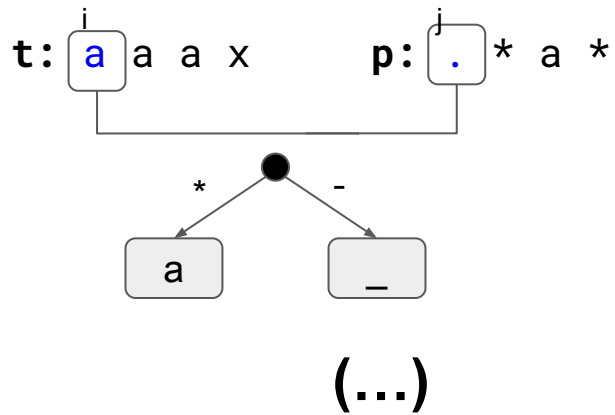
```

```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first match and match(i+1,
            False False j))
8.     else:
9.         return first_match and match(i+1, j+1)

```

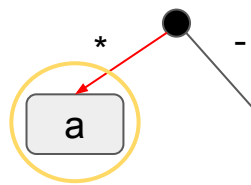


```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True     first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
                False                                True
            j))
8.         else:
9.             return first_match and match(i+1, j+1)

```

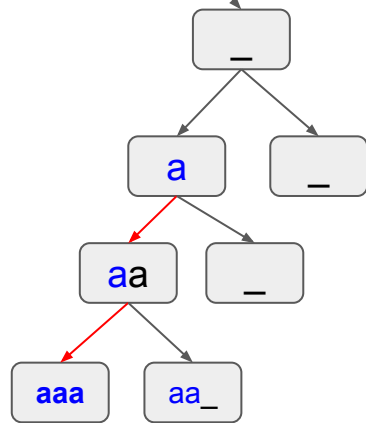
t: ⁱ a a x p: ^j . * a *



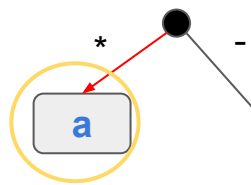
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
            False      True
            j))
8.     else:
9.         return first_match and match(i+1, j+1)

```



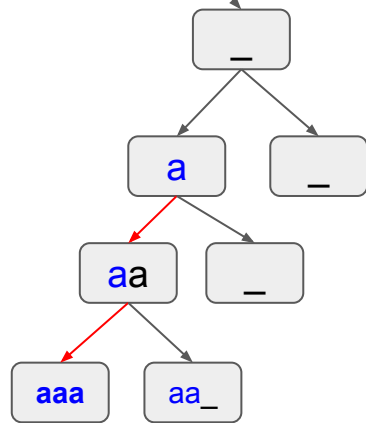
t: aⁱ a x p: .^j * a *



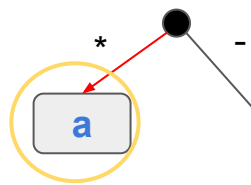
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.             '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.                 j))
9.         else:
10.            return first_match and match(i+1, j+1)

```



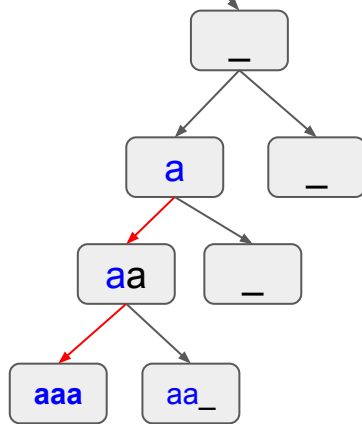
t: aⁱ a x p: .^j * a *



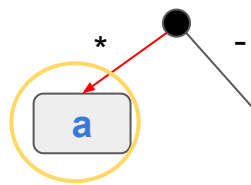
```

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4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
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7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             return first_match and match(i+1, j+1)

```



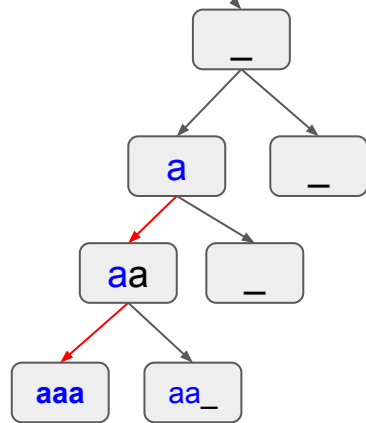
t: aⁱ a x p: .^j * a *



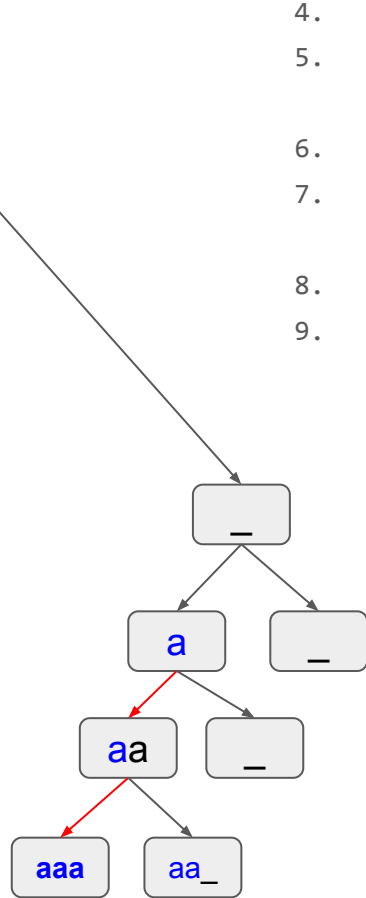
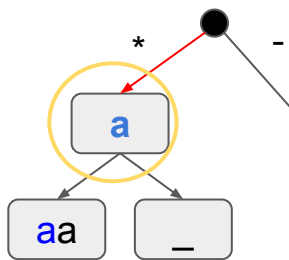
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.       if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.           return match(i, j+2) or (first_match and match(i+1,
            j))
8.       else:
9.           return first_match and match(i+1, j+1)

```



t: a a x p: . * a *

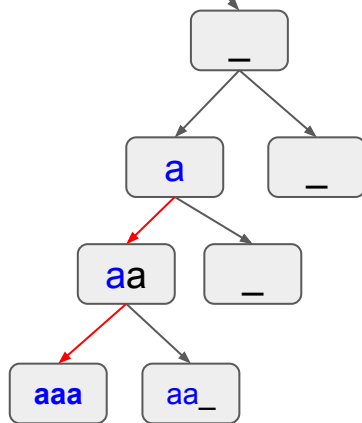
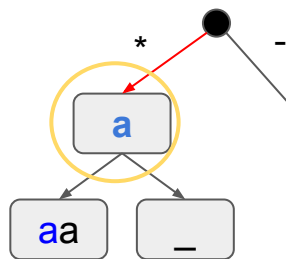


```

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2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.             '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.                 j))
9.         else:
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```

t: a a x p: . * a *



```

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7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             return first_match and match(i+1, j+1)

```

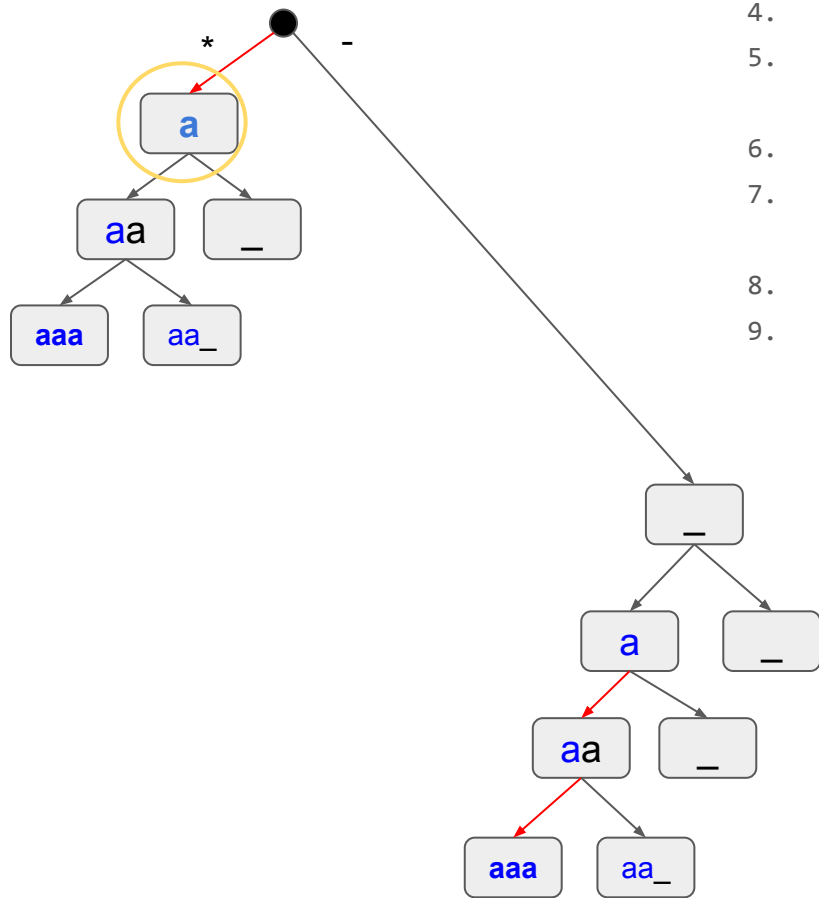



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True     first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             return first_match and match(i+1, j+1)

```

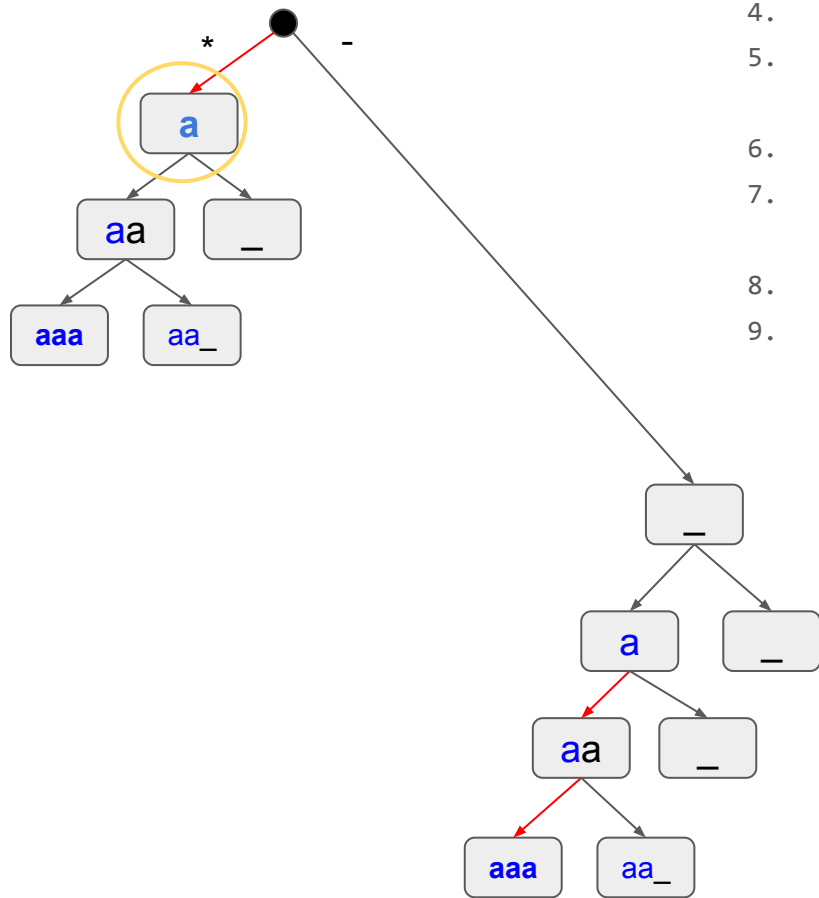
t: a a x p: . * a *



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
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8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)
  
```

t: a a x p: . * a *

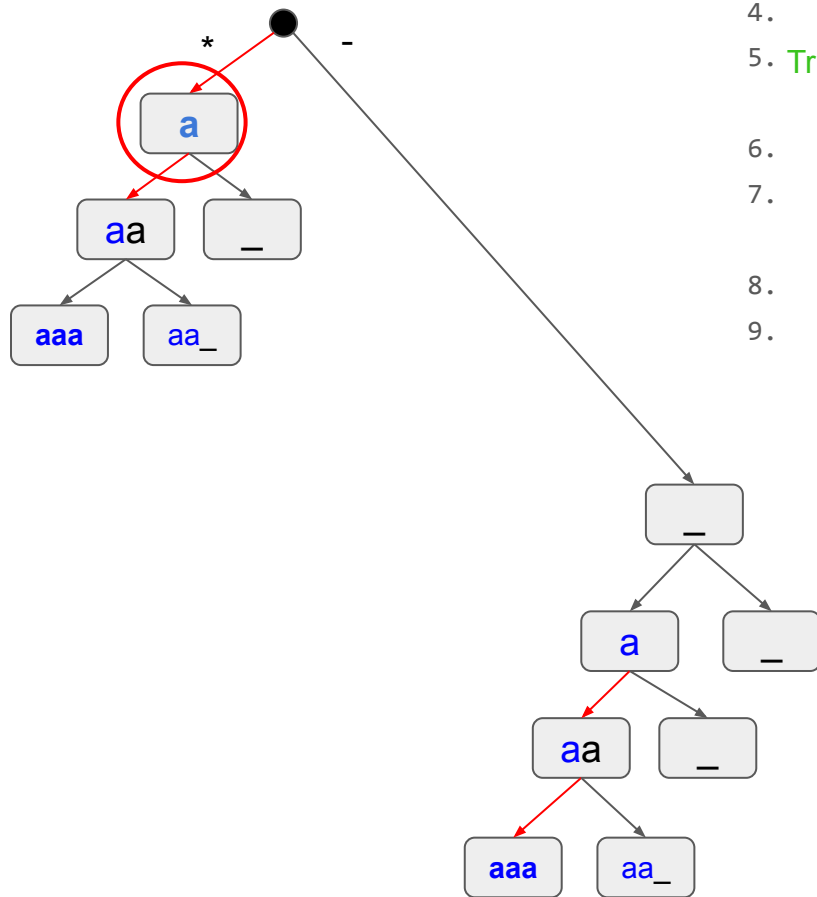


```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text)) False
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

```

t: aⁱ a a x p: . * a^j *

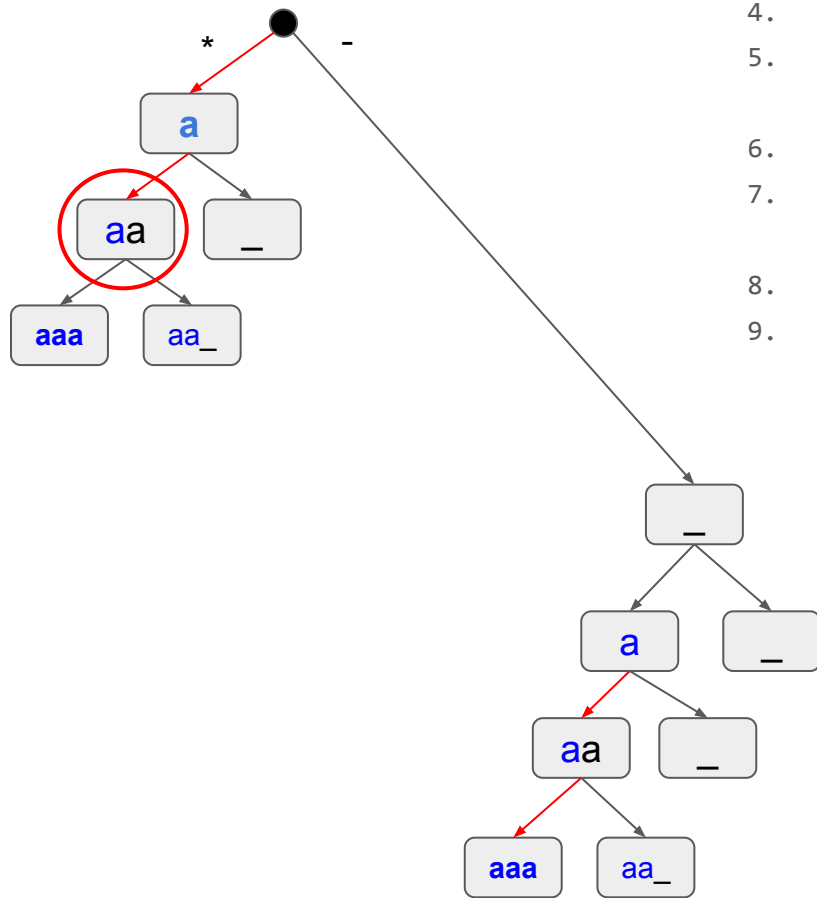


```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9. j))
                False           True
10.         else:
11.             return first_match and match(i+1, j+1)

```

t: a a ⁱa x p: . * ^ja *

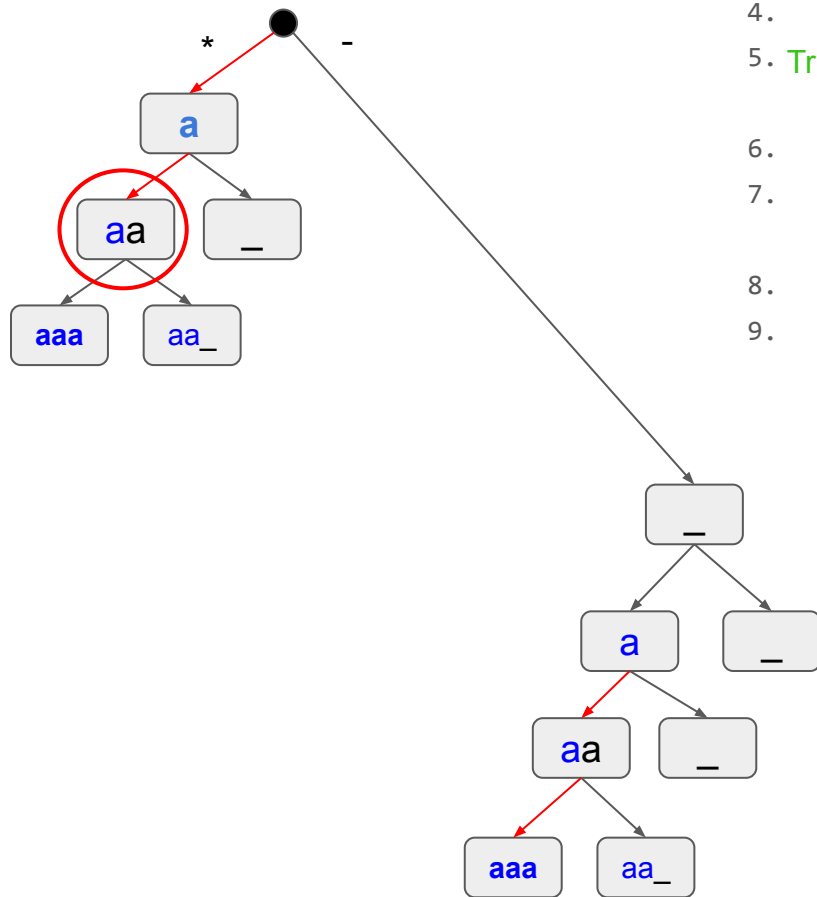


```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
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7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
9.         else:
10.            return first_match and match(i+1, j+1)

```

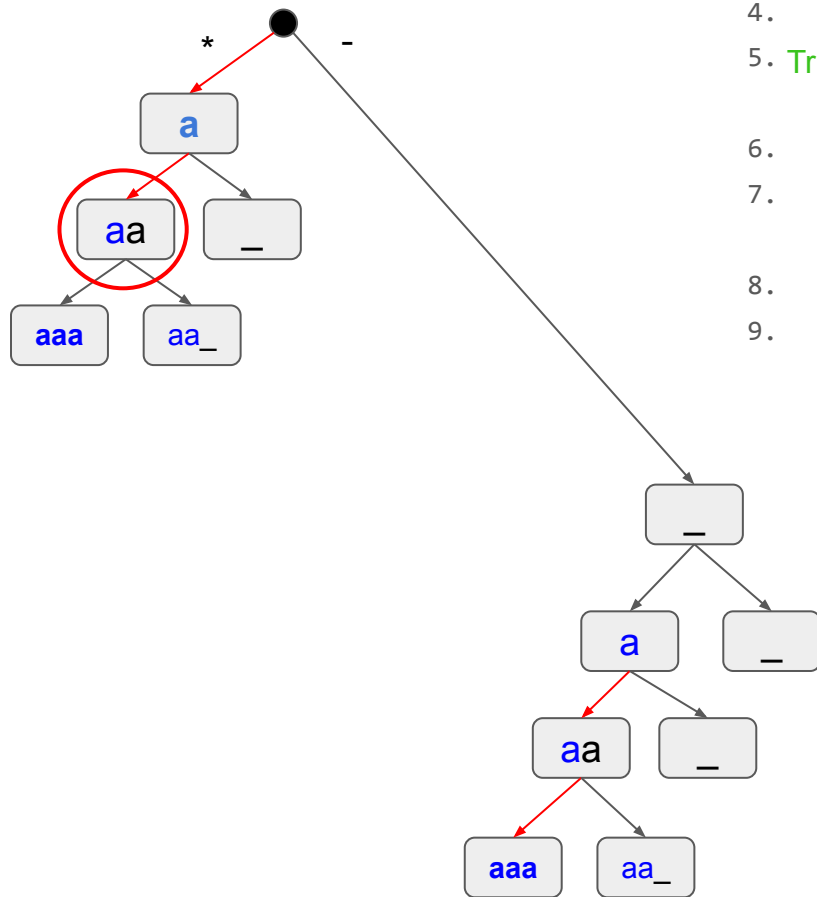
t: a a ⁱa x p: . * ^ja *



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
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4.     else:
5. True     first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
            j))
8.         else:
9.             return first_match and match(i+1, j+1)
    
```

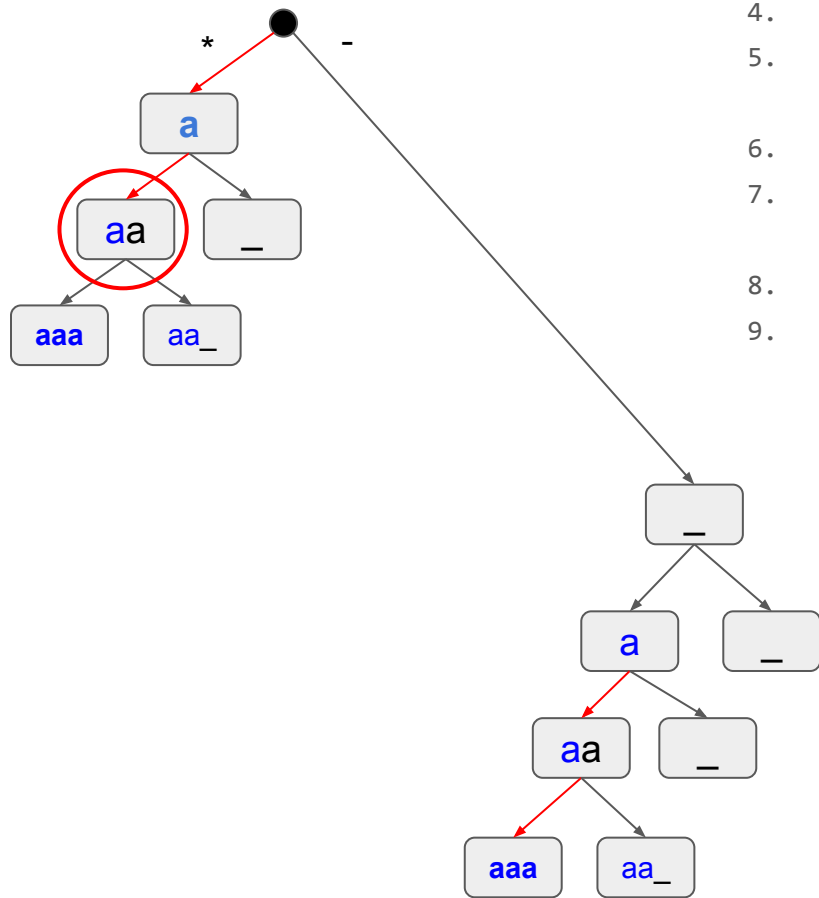
t: a a ⁱa x p: . * ^ja *



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '.'}
6.       if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
            j))
8.     else:
9.         return first_match and match(i+1, j+1)
  
```

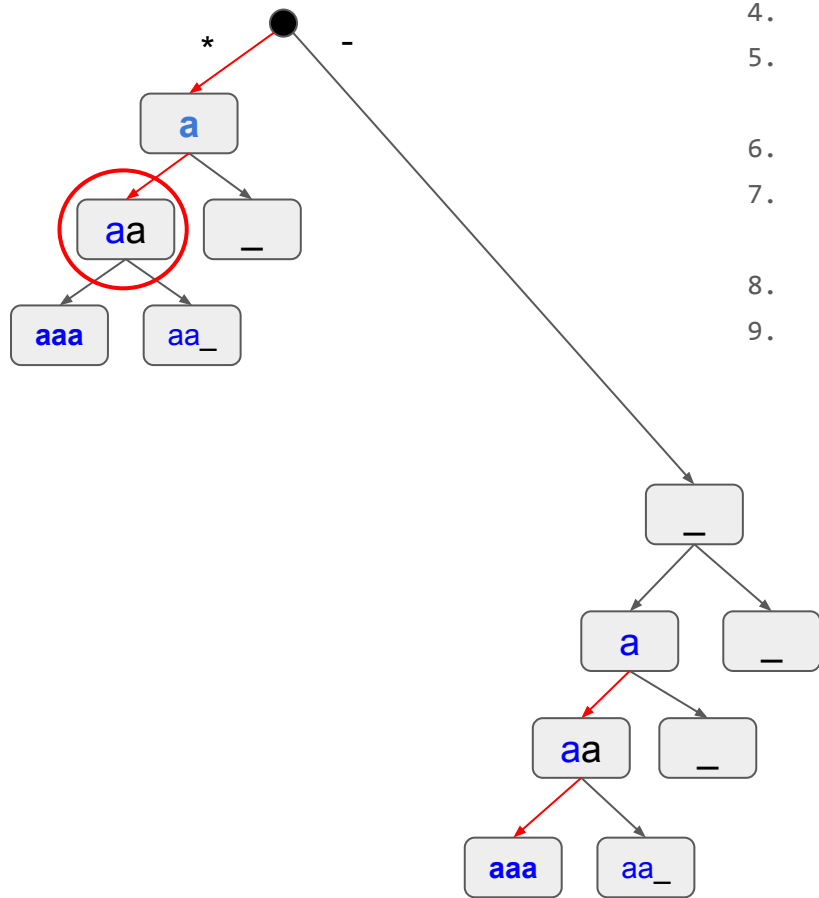
t: a a ⁱa x p: . * a * ^j



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return ( i == len(text) )
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
9.         else:
10.            return first_match and match(i+1, j+1)
  
```

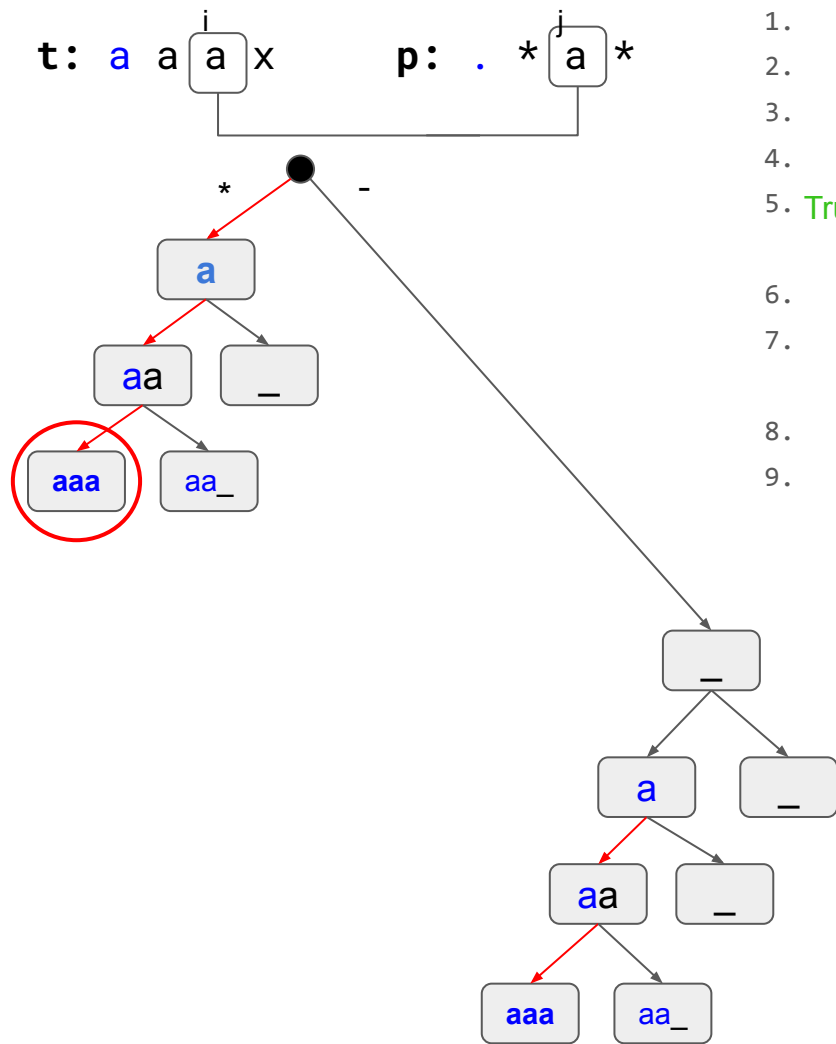

t: a a ⁱa x p: . * a * ^j



```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))    False
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
9.         else:
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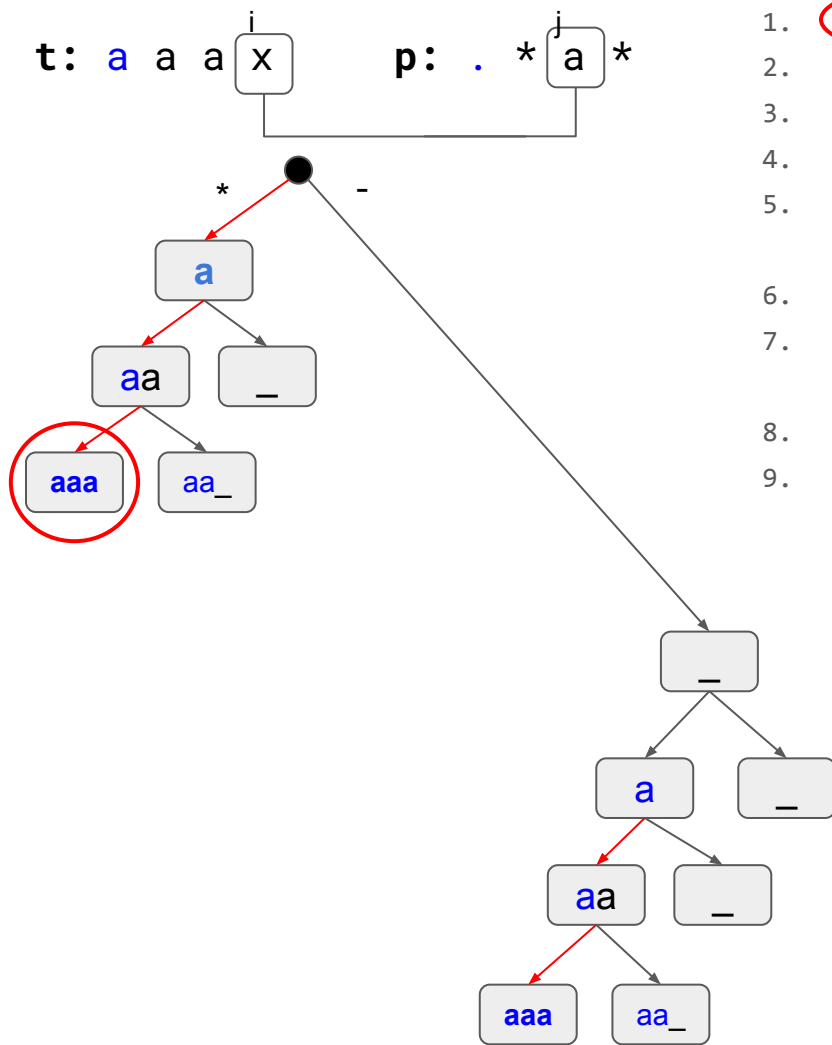
```



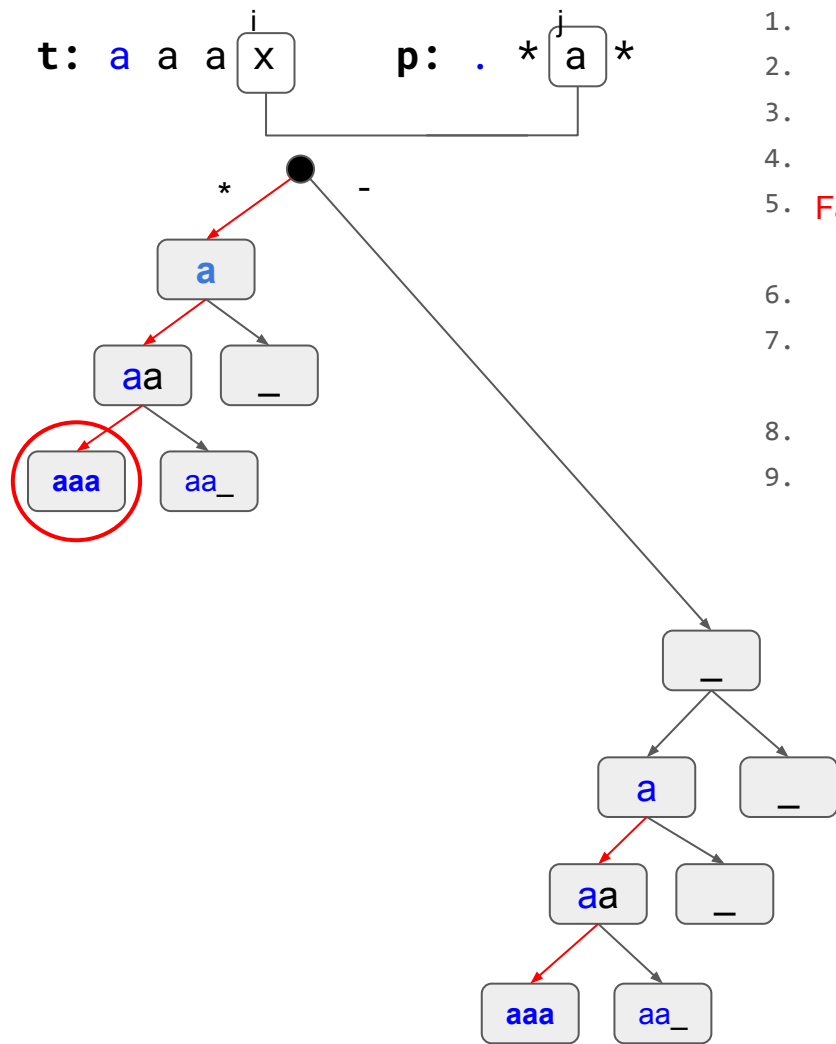
```

1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. True   first_match = i < len(text) and pattern[j] in {text[i],
        '. '}'
6.
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9. False                                     True j))
10.        else:
11.            return first_match and match(i+1, j+1)

```



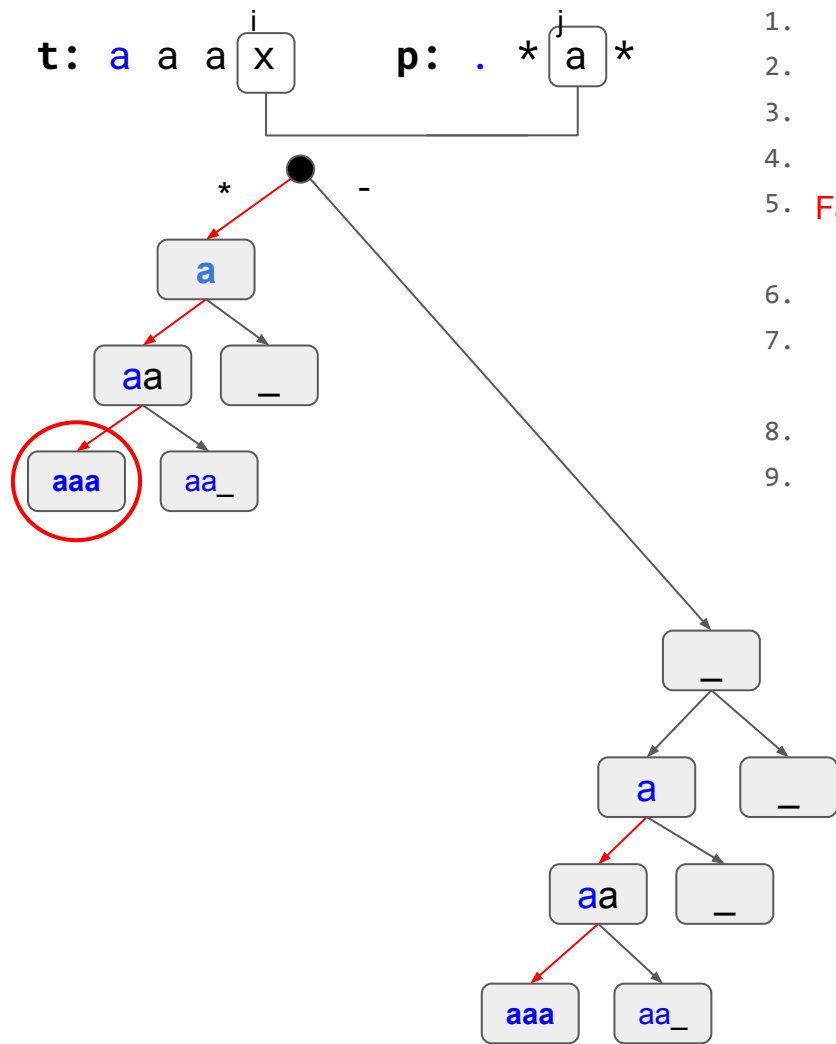
```
1. def match(i: int, j: int) -> bool:
2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5.         first_match = i < len(text) and pattern[j] in {text[i],
6.         '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
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```



```

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   '.'}
6.     if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.         return match(i, j+2) or (first_match and match(i+1,
   j))
8.     else:
9.         return first_match and match(i+1, j+1)

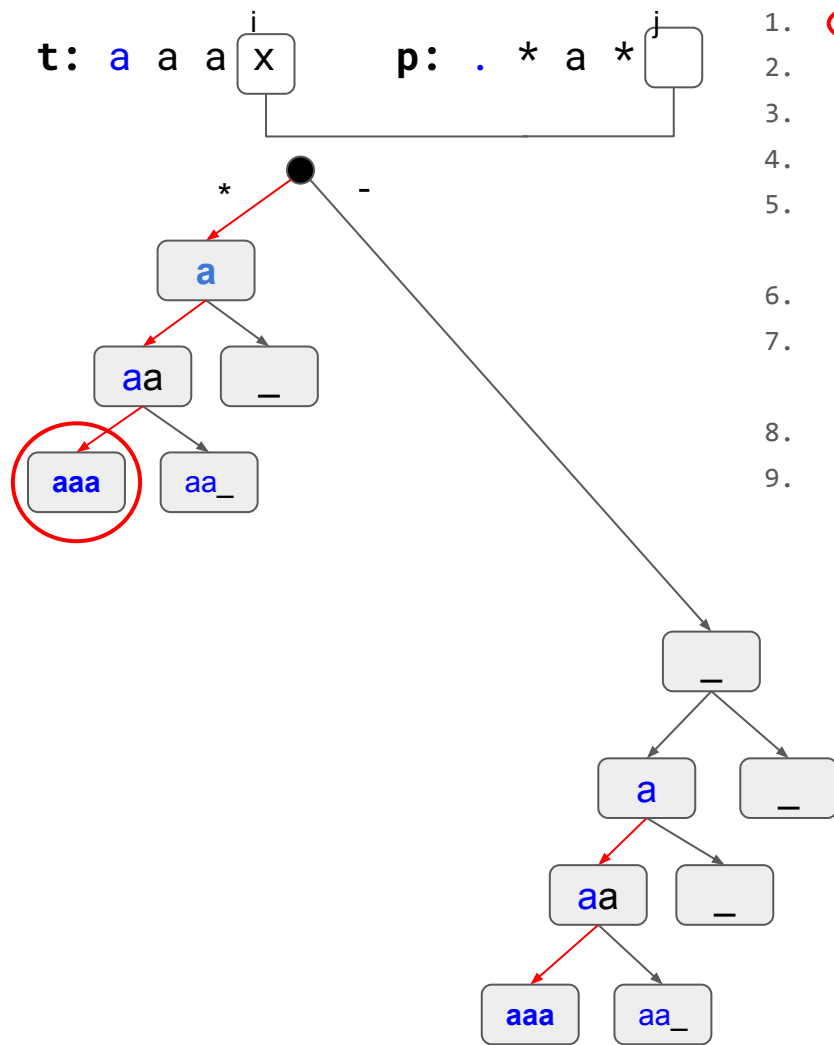
```



```

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2.     if (j == len(pattern)):
3.         return (i == len(text))
4.     else:
5. False first_match = i < len(text) and pattern[j] in {text[i],
6.     '.'}
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8.         return match(i, j+2) or (first_match and match(i+1,
9.         j))
10.    else:
11.        return first_match and match(i+1, j+1)

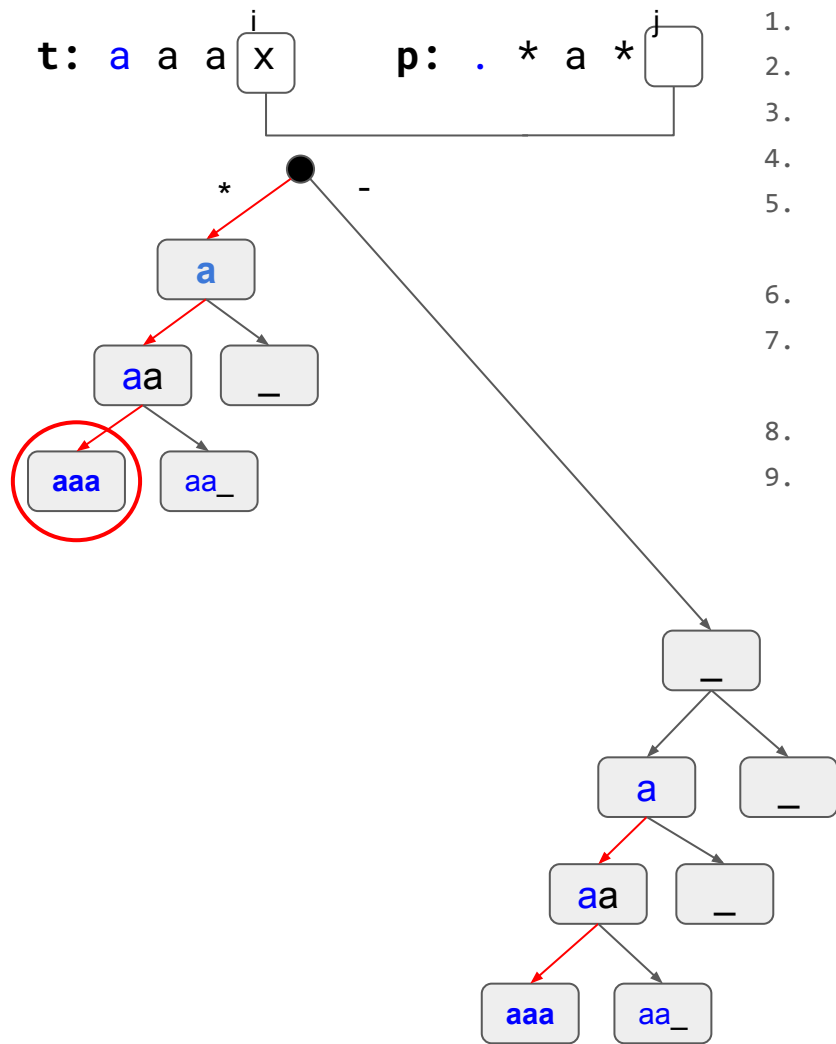
```



```

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3.         return (i == len(text))
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7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.             j))
10.        else:
11.            return first_match and match(i+1, j+1)

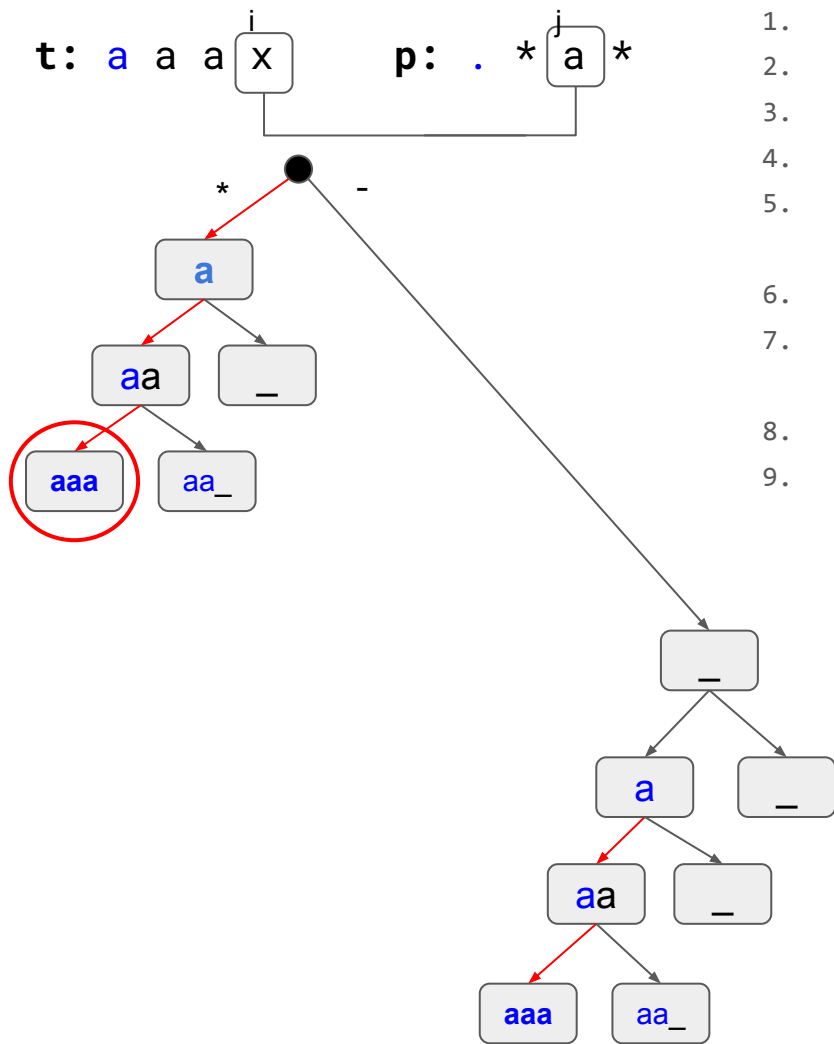
```



```

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3.         return (i == len(text)) False
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6.             '.'}
7.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
8.             return match(i, j+2) or (first_match and match(i+1,
9.                 j))
9.         else:
10.            return first_match and match(i+1, j+1)

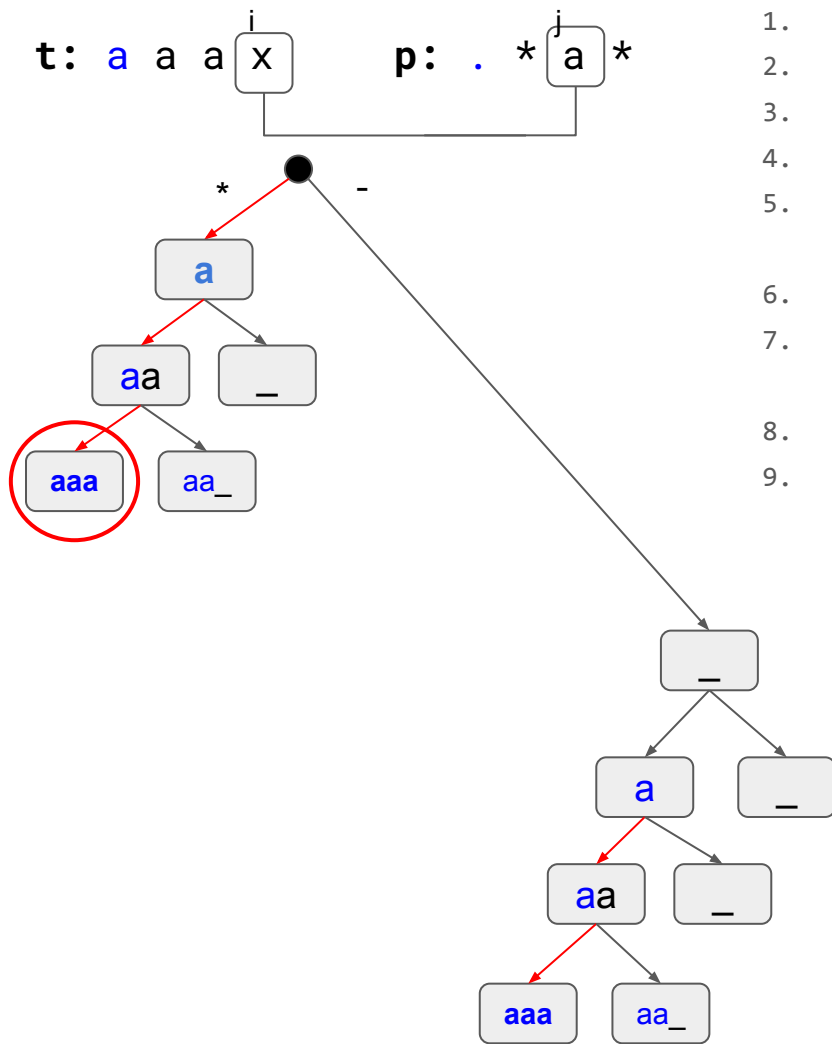
```



```

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j)
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
7.             return match(i, j+2) or (first_match and match(i+1,
False
j))
8.         else:
9.             return first_match and match(i+1, j+1)

```

```

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False
6.         if (j+1 < len(pattern) and pattern[j+1] == '*'):
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False
j))
8.         else:
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```

