

LEK 2

March 11, 2022

- []: *# LEK 2*
Task: Name two types of loops and outline their general construction, including their condition
1 Loop (for)
For
initialization of the starting value
starting value is less than the stopping value
one or more statements or actions
increment the starting value

2 Loop (while)
initialization of the starting value (predicate)
While the starting value is less than the stopping value
some statements or action
one or more statements or actions
increment the starting value
- []: *# Task: Write down the general construction of a branching, using if, elif, and else.*
If (boolean condition) Then
(consequent)
Elif (boolean condition) Then
(consequent)
Else
(alternative)
End If
- []: *# Pseudocode*
You want to sort your CD collection, consisting of 250 CDs, according to genre and artist.
You have CDs of five different genres, Pop, Rock, Dance, Hip-Hop and Folk.
→ For each genre
there are seven different artists (KP1 to KP7, KR1 to KR7, etc...). Write the Pseudocode and
create a structogram for this problem. Don't forget to define possible additional variables
beyond the array CDs.

```

# Define a CD collection cd_array with a size of 250.
# Define 35 empty subcollections or subarrays: pop_KP1 ... pop_KP7 and so on.
# Define an iterable subarray for genres: ["Pop", "Rock", "Dance", "Hip-Hop",
↳ "Folk"]; genres = 5
# Define an iterable subarray for artists: ["KP1", ..., "KP7", "KR1", ...
↳ "KR7", etc.]; artists = 35

# For each cd in cd_array:
#     For each genre in genres:
#         For each artist in artists:
#             If cd is equal to genre and cd is equal to artist: Then
#                 append the cd to the predefined empty subarrays (i.e. pop_KP1,
↳ pop_KP2, etc.)

```