A Christmas tree constructed from strings of red, green, and yellow lights, topped with a star of yellow lights, set against a black background.

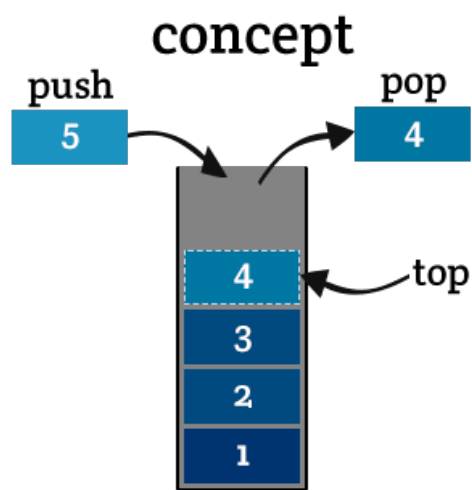
Basteltruppe

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Dynamic Memory

Stack



real life



last-in-first-out (LIFO)



```
void*  
malloc(size_t)
```

```
void  
free(void*)
```

```
void*  
realloc(void*  
old, size_t  
new_size)
```

**Everything
that is
allocated,
must be
freed!**

**Everything
must only be
freed once!**

**Only use the
memory that
you received
by the
runtime!**

Exercises

- Write a Linked List
- Write a Binary Tree
- Write a Ringbuffer (heap allocated)
- Write an ArrayList
-