

1. An array and stack both store values. An array is sometimes used as the basis of a stack. An array however allows access to any value from the index, while a stack only allows access to the top (most recently added) value, which it does automatically.
2. N/A
3. 8 13
8 12
4. Only the most recently used values are available, similar to only the most recently used plates being on top and easy to grab. The bottom values remain stagnant unless everything above is removed, same as the plates.
5. 5 8
12 5
6. First-in-first-out means that the first object added is the first one accessed and removed, like a line to access a checkout where the first person to get in line is the first to pay and leave, while everyone else waits behind. Last-in-first-out means that the last value added is the first one accessed and removed, like a literal stack of objects where the last one placed on top is the first one removed.
7. Orders for a product fulfilled in order of request date, or cars waiting to go through an intersection