WHAT TYPE OF OBJECTS CANA COLLECTIONHOLD?

THIS IS AN IMPORTANT QUESTION

IN SOME LANGUAGES LIKE PYTHON,
A COLLECTION CAN HOLD OBJECTS OF
ANY TYPE

JAVA ENFORCES TYPE-SAFETY

IN JAVA, ALL VARIABLES HAVE DECLARED TYPES

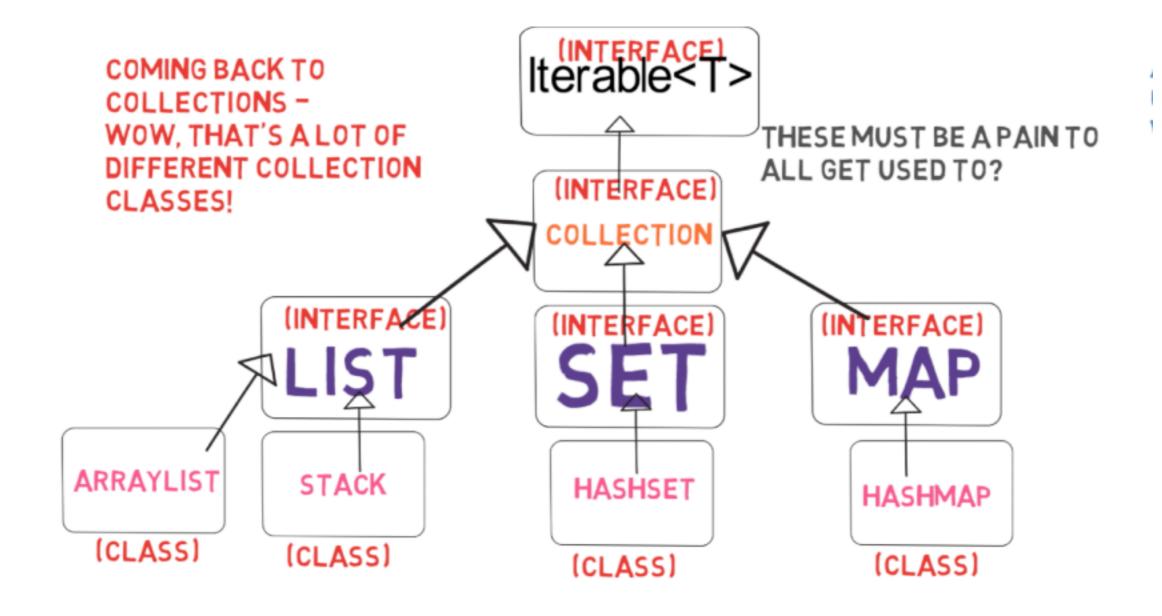
THIS HELPS AVOID ERRORS OF THE SORT WHERE A PROGRAMMER EXPECTS AN OBJECT TO BE A NUMBER, BUT ITS ACTUALLY A STRING

BUT IT DOES MEAN DECLARING UPFRONT THE TYPE OF A VARIABLE

TYPE-SAFETY FOR COLLECTIONS

COLLECTIONS - LISTS, MAPS, SETS - SATISFY JAVA TYPE SAFETY RULES VIA

GENERICS



ACTUALLY NOT, BECAUSE THERE IS A UNIFORM AND INTUITIVE WAY TO WORK WITH THEM ALL.

IT INVOLVES

THE ITERATOR PATTERN

EVERY JAVA COLLECTION IMPLEMENTS THE INTERFACE Iterable < T > THIS INTERFACE HAS A SINGLE

[terator iterator()

IN OTHER WORDS, EVERY JAVA COLLECTION OFFERS A WAY TO GET A CORRESPONDING

ITERATOR OBJECT