Software Engineering Assignment 1

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On initialising the Args object, with a schema and an argument list, we: -Create: - marshalers, a map from characters to marshalers - argsFound, a set of all characters found so far - Parse: - the schema, using parseSchema: - the schema (which is a comma-separated list of char+indicator combinations) is split by commas, and: - for each comma-separated element of non-zero length, we pass it to parseSchemaElement where each element is split into: an elementId - which has to be a single character to be valid (the validator, validSchemaElementId just checks if the character is a letter or not), - and the rest of the string, which has to be a specific character combination. This combination is used to decide which ArgumentMarshaler will be associated with the elementId - So, at the end of this you have a new entry to the marshalers map: the elementId and the associated marshaler, both extracted from element -Now, marshalers is a map for all comma-separated elements of the schema - the argument list, using parseArgumentStrings: - going over the list, it passes all elements starting with '-' to parseArgumentCharacters: - a wrapper to send each character into parseArgumentCharacter, where: - an ArgumentMarshaler is gotten from the marshalers map for the character.

Schema

Args

Marshalers