(a) Column Type Annotation

1958 Nippon Professional Baseball season

Central League

Stat	Player	Team	Total
Wins	Masaichi Kaneda	Kokutetsu Swallows	31
Losses	Noboru Akiyama	Talyo Whales	23
Earned run average	Masaichi Kaneda	Kokutetsu Swallows	1.3
Strikeouts	Masaichi Kaneda	Kokutetsu Swallows	311
Innings pitched	Motoshi Fujita Noboru Akiyama	Yomiuri Giants Taiyo Whales	359

Instruction:

This is a **column type annotation** task. The goal for this task is to choose the correct types for one selected column of the table from the given candidates. The Wikipedia page.... provide important information for choosing the correct column types.

Input:

[TLE] The Wikipedia page is about 1958 Nippon Professional Baseball season, The Wikipedia section is about Central League. The table caption is Pitching leaders, [TAB] col: | stat | player | ... [SEP] row 1: | Wins | Masaichi Kaneda | ... [SEP] row 2: | Losses | ...

Question:

The column 'player' contains the following entities: «Masaichi Kanedo», «Noboru Akiyamo», ... The column type candidates are:

ty by producer, astronomy star, system, body. ... What are the correct column types for this column (column name: player; entities:

«Masaichi Kaneda», ..., etc)?
Response: sports.pro_athlete, baseball_baseball_player_people.person.

(b) Row Population

NBA Conference Finals

Eastern Conference Finals





Instruction:

This is a table **row population** task. The goal of this task is to populate the possible entities of the selected column for a table, given the Wikipedia page title, You will be given a list of entity candidates. Please rank them so that the most likely entities come first.

Input:

[TLE] The Wikipedia page is about NBA conference finals. The Wikipedia section is about eastern conference finals. The table headers are: |year | champion | ... You need to populate the column: year, |SEED| The seed entity is 4971 NBA_playoffs.

Question:

The entity candidates are: <2003_NBA_playoffs>, <1982-83_Washington_Bullets_season>, <2004_NBA_playoffs>, Philadelphia_76ers>, <1983-84_Washington_Bullets_season>, <1952_NBA_playoffs>, ...

Response: <1972_NBA_playoffs>, <1973_NBA_playoffs>, <1974_NBA_playoffs>, <1975_NBA_playoffs>, <1976_NBA_playoffs>, ...

(c) Hierarchical Table QA

Table: Department of defense obligations for research, development,

test, and evaluation	on, by agency:	2015-18		
agency	2015	2016	2017	2018
	departm	ent of defens	e	
rdt&e	61513.5	69306.1	70866.1	83725
total research	6691.5	7152	7178	7652.7
basic research	2133.4	2238.7	2110.1	2389.9
		research proj		
rdt&e	2815.6	2933.4	2894.5	3018.2
total receases	1405	1525.0	1500 /	1690

359.8 378.1

Instruction:

This is a hierarchical table question answering task. The goal for this task is to answer the given question based on the given table. The table might be hierarchical.

Input:

[TLE] The table caption is department of defense obligations for research, development, test, and evaluation, by agency: 2015-18.

[TAB] | agency | 2015 | 2016 | ... | SEP| | department of defense | department of defense | ... | SEP| | rdt&e | 61513.5 | ... | SEP| | total

research | 6691.5 | ... [SEP] | basic research | 2133.4 | ... [SEP] | defense advanced research projects agency | ... ### Question:

458.4

How many dollars are the difference for total research of department of the air force increase between 2016 and 2018?

Response: 142.3.