

## Peoples Database

---

The following comma-separated values (CSV) file contains information regarding 20000 (fictional) people:

<http://dva128.s3.eu-north-1.amazonaws.com/kompendium/database.csv>

Each row of the file represents a person (except from the first row):

```
ID,FORENAME,SURNAME,GENDER,YEAR
0,Robin,Viklund,male,1965
1,Marie,Henriksson,female,1962
2,Ann-Christin,Karlsson,female,1988
3,Per,Mattsson,male,2010
...
```

By examining the first row of the file, you can determine the meaning of each column. The first column contains a unique identifier for each person, the second column contains the persons forename and so forth.

In this assignment, you will create a program that allows users to search individuals from this file. The program must support three operations (`get_id`, `scan_f` and `scan_s`):

### Get ID (`get_id`)

The `get_id` operation prints personal information based on an ID provided by the user:

```
.: PEOPLES DATABASE :.
-----
get_id | Get person by ID
scan_f | List people by FORENAME
scan_s | List people by SURNAME
exit   | Exit program
-----
| menu > get_id
| ID = 1337
-----
| ID:      1337
| FORENAME: Agneta
| SURNAME:  Sundberg
| GENDER:  female
| YEAR:    2001
-----
```

For the `get_id` operation, it is important that each personal attribute is printed on a new line in a “key-value” format as shown above.

### Scan Forename (scan\_f)

The scan\_f operation briefly prints all the people that matches with a forename provided by the user:

```
...
| menu > scan_f
| FORENAME = Agneta
-----
364,Agneta,Olofsson,female,2009
468,Agneta,Håkansson,female,1973
527,Agneta,Eliasson,female,1984
808,Agneta,Blom,female,1965
871,Agneta,Löfgren,female,1992
...
```

### Scan Surname (scan\_s)

The scan\_s operation behaves as scan\_f but search based on surname instead of forename.

```
...
| menu > scan_s
| SURNAME = Sundberg
-----
33,Edvin,Sundberg,male,1958
113,Ella,Sundberg,female,1991
210,Berit,Sundberg,female,1964
283,Eva,Sundberg,female,1977
312,Anita,Sundberg,female,1990
...
```

For both scan\_f and scan\_s, only rows that match with the given forename or surname should be printed (as shown above). You do not need to do any formatting.

### Common erros to avoid

#### *The program is not behaving according to instructions*

If you are unsure how the program should work. Check the simlet in Canvas.

#### *Missing operations*

Your program must support all the operations and each operation must behave as required by this document.

#### *The output of get\_id does not follow the requirements*

Only print the personal information of the individual with the matching ID. Each attribute must be printed on a new line in a “key-value” format.

#### *The output of scan\_f or scan\_s does not follow the requirements*

Only people with matching forename or surname should be printed. Also, the output (per person) should be brief. Printing all personal attributes on separate lines is therefore a bad idea.