## TSPR solution file format

This document provides a description of the solution file format for benchmark instances for the TSPR, as provided on the website http://gent.cs.kuleuven.be/tspr. The order in which the elements are described in this document corresponds to the order of the elements in the solution file format.

## 1 File format

The first line shows general information regarding the solution:

```
instance feasible objective unassigned time
```

With instance the name of the instance, feasible a boolean value indicating whether the solution is feasible, objective the cost of the solution, unassigned the number of unassigned tasks, and time the time required to obtain the solution.

## 1.1 Task assignments

Task assignments in the solution are given as follows:

```
y_0
y_1
y_{|T|}
```

For each task  $t \in T$ , the assigned employee  $y_t$  is specified.

## 1.2 Shift assignments

Shift assignments are specified as follows:

For each employee  $e \in E$  and day  $d \in D$ , the assignment on day d of employee e is specified by  $x_{ed}$ , which is the index of the assigned shift.