

Advent of Code 2023

Day 1

```
In[41]:= SetDirectory[NotebookDirectory[]]
Out[41]=
/home/rlupi/src/aoc2023/1

In[42]:= input = Import["d1-p1-input.txt", "Lines"];
In[43]:= Length[input]
Out[43]=
1000
```

Part 1

```
In[44]:= part1 = ToString[##] → ## & /@ Range[10]
Out[44]=
{1 → 1, 2 → 2, 3 → 3, 4 → 4, 5 → 5, 6 → 6, 7 → 7, 8 → 8, 9 → 9, 10 → 10}

In[45]:= CalibrationValue[input_, rules_] :=
  Total[First[##] * 10 + Last[##] & /@ StringCases[input, rules, Overlaps → True]]

In[46]:= test1 = StringSplit["1abc2
pqr3stu8vwx
a1b2c3d4e5f
treb7uchet", EndOfLine]
Out[46]=
{1abc2,
 pqr3stu8vwx,
 a1b2c3d4e5f,
 treb7uchet}

In[47]:= CalibrationValue[test1, part1]
Out[47]=
142
```

Part 2

```
In[48]:= part2 = Join[
  {"one" → 1, "two" → 2, "three" → 3, "four" → 4,
   "five" → 5, "six" → 6, "seven" → 7, "eight" → 8, "nine" → 9}, part1]
```

```
Out[48]= {one → 1, two → 2, three → 3, four → 4, five → 5, six → 6, seven → 7, eight → 8,
  nine → 9, 1 → 1, 2 → 2, 3 → 3, 4 → 4, 5 → 5, 6 → 6, 7 → 7, 8 → 8, 9 → 9, 10 → 10}
```

```
In[49]:= test2 = StringSplit["twoInine
eightwothree
abcone2threexyz
xwone3four
4nineeightseven2
zoneight234
7pqrstsixteen", EndOfLine]
```

```
Out[49]= {twoInine,
  eightwothree,
  abcone2threexyz,
  xwone3four,
  4nineeightseven2,
  zoneight234,
  7pqrstsixteen}
```

```
In[50]:= CalibrationValue[test2, part2]
```

```
Out[50]= 281
```