```
> currentdir("/home/matejcmatej/Documents/maple"):
> with(LinearAlgebra):
[1)
      f := fopen("soucty.txt", WRITE): # otevru soubor
      for i from 1 to 100 by 1 do
            fprintf(f, "%d \n",( i+i-1)):
      fclose (f):
 2)
_> soustava := ImportMatrix("soustava.xlsx"): #nactu soustavu
 > rside := soustava[..,ColumnDimension(soustava)]: # definuju
   pravou stranu
> Iside := soustava[.., 1..ColumnDimension(soustava)-1]:
> vysledek := LinearSolve(Iside, rside): #vysledny vektor
> vysledek := convert(vysledek, Matrix):
> ExportMatrix("vektor.txt", vysledek):
Гз)
      data := ImportMatrix("teploty_prosinec.csv" ):
```

```
data:= ImportMatrix("teploty_prosinec.csv"):

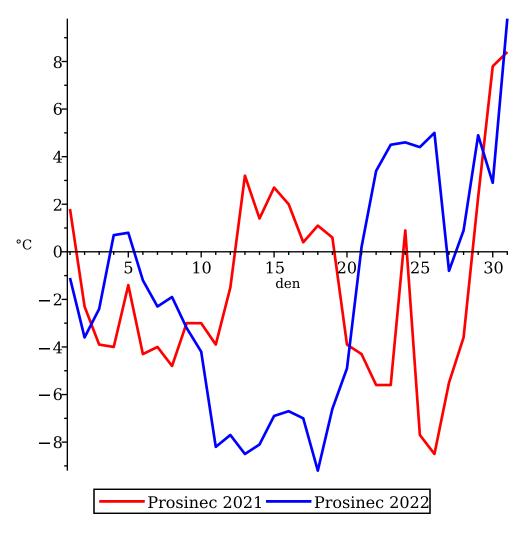
first_row := data[1,..]:

second_row := data[2,..]:

pr21 := [seq([i, first_row[i]], i = 1..numelems (first_row))]:

pr22 := [seq([i, second_row[i]], i = 1..numelems (second_row))]:
```

> pros21 := plot([pr21, pr22], color=["red", "blue"], thickness=2, legend=["Prosinec 2021", "Prosinec 2022"], labels=["den", "°C"], scaling = unconstrained)



**[**4)

```
1  f := fopen("cisla.txt", READ):
2  soucet := 0:
3  iterace := 0:
4  while not feof(f) do
5  soucet := soucet + fscanf(f, "%d."):
6  iterace := iterace + 1:
7  #print(soucet);
8  #print(iterace); ----> pro debug
9  od:
10  fclose(f):
```

1 [10210]
2 [15642]
3 [15665]
4 [15667]
5

[8976]

[15672] 6 [15739] 7 [16482] 8 [16495] 9 [17729] 10 [18152] 11 [18156] 12 [18158] 13 [22503] 14 [23059] 15 [23137] 16 [23202] 17 [23233] 18 [23356] 19 [23922] 20 [28276] 21 [28279] 22 [28281] 23 [28283]

```
[28294]
  25
[32795]
  26
[34572]
  27
[34806]
  28
[34871]
  29
[34903]
  30
[34919]
  31
[34926]
  32
[34991]
  33
[35023]
  34
[35032]
  35
[35921]
  36
[36009]
  37
[36016]
  38
[36021]
  39
[36076]
  40
[36520]
  41
[36553]
  42
[36575]
```

```
[36631]
  44
[37288]
  45
[37630]
  46
[38843]
  47
[39277]
  48
[39732]
  49
[39798]
  50
[39852]
  51
[46706]
  52
[47091]
  53
[47356]
  54
[49590]
  55
[49911]
  56
[50561]
  57
[50566]
  58
[50581]
  59
[65815]
  60
[65867]
  61
[65902]
```

```
[71337]
  63
[127773]
  64
[127776]
  65
[128465]
  66
[128551]
  67
[128596]
  68
[130937]
   69
[131069]
  70
[173491]
  71
[173503]
  72
[173626]
  73
[174859]
  74
[179182]
  75
[202603]
  76
[202626]
  77
[203190]
  78
[203313]
  79
[208880]
  80
[217746]
```

```
[218345]
                                  82
                               [218349]
                                  83
                               [218352]
                                  84
                               [223988]
                                  85
                               [224011]
                                  86
                               [224911]
                                  87
                               [233683]
                                  88
                               [235917]
                                  89
                               [240926]
                                  90
                               [241593]
                                  91
                               [241612]
                                  92
                               [241683]
                                  93
                               [242027]
                                  94
                               [242470]
                                  95
                               [242473]
                                                                       (1)
                                  96
> prumer := evalf(soucet/iterace)
                        prumer := [2525.760417]
                                                                       (2)
```