```
ln[*]: SetDirectory["C:/Users/serha/OneDrive/Masaüstü/MyRepo/master_thesis_MMT003/data/"];
In[*]:= data = Import["ccm1_data.csv", HeaderLines → 1];
in[*]:= widthcolumn = data[[All, 9]];
    thicknesscolumn = data[[All, 10]];
    weightcolumn = data[[All, 11]];
     lengthcolumn = data[[All, 12]];
ln[*]: stringposwidth = Flatten@Position[Table[Head@i, {i, widthcolumn}], String];
In[*]:= stringposthickness = Flatten@Position[Table[Head@i, {i, thicknesscolumn}], String];
     stringposweight = Flatten@Position[Table[Head@i, {i, weightcolumn}], String];
     stringposlength = Flatten@Position[Table[Head@i, {i, lengthcolumn}], String];
In[@]:= stringtonumberconvertedpartswidth = (Internal`StringToDouble /@
           Table[StringReplace[widthcolumn[[i]], "," → "."], {i, stringposwidth}]) /. 0. → "NA";
In[*]:= stringtonumberconvertedpartsthickness =
       (Internal`StringToDouble /@ Table[StringReplace[thicknesscolumn[[i]], "," → "."],
            {i, stringposthickness}]) /. 0. → "NA";
     stringtonumberconvertedpartsweight = (Internal`StringToDouble /@ Table[
            StringReplace[weightcolumn[[i]], "," \rightarrow "."], \{i, stringposweight\}]) \ /. \ 0. \rightarrow "NA";
     stringtonumberconvertedpartslength = (Internal`StringToDouble /@ Table[
            StringReplace[lengthcolumn[[i]], "," → "."], {i, stringposlength}]) /. 0. → "NA";
log_{in[-i]} = widthcolumncorrected = widthcolumn /. DeleteDuplicates@MapThread[#1 <math>\rightarrow #2 &,
           {widthcolumn[[stringposwidth]], stringtonumberconvertedpartswidth}];
log_{p} := thickness column corrected = thickness column /. Delete Duplicates@Map Thread [#1 <math>
ightarrow #2 &,
           {thicknesscolumn[[stringposthickness]], stringtonumberconvertedpartsthickness}];
    weightcolumncorrected = weightcolumn /. DeleteDuplicates@MapThread[#1 → #2 &,
           {weightcolumn[[stringposweight]], stringtonumberconvertedpartsweight}];
     lengthcolumncorrected = lengthcolumn /. DeleteDuplicates@MapThread[#1 → #2 &,
           {lengthcolumn[[stringposlength]], stringtonumberconvertedpartslength}];
    data[[All, 9]] = widthcolumncorrected;
     data[[All, 10]] = thicknesscolumncorrected;
    data[[All, 11]] = weightcolumncorrected;
    data[[All, 12]] = lengthcolumncorrected;
In[*]:= headerline = Take[Import["ccm1_data.csv"], 1]
Out[*]= { {, SEQUENCE_ID, R_OS_ID, PRODUCTION_LINE_NAME,
       REFERENCE_DATE, PIECE_ID, MATERIAL_ID, MOLD_WIDTH, WIDTH, THICKNESS,
       WEIGHT, LENGTH, HEAT_ID, STEEL_GRADE_ID_INT, EXIT_TEMP, SLAB_TRANSITION}}
     (* Export["ccm1_data_modified.csv", Join[headerline, data]] *)
```