Advent of Code

--- Day 4: Secure Container ---

Puzzle input: 109165-576723

```matlab
clear; clc;
in=109167:1:576723;
an=[]; con=1;
for i=1:1:length(in)
    temp1=string(in(i)); temp1=char(temp1);
    if length(unique(temp1))==1
        an(1,con)=str2double(temp1);
        con=con+1;
        continue
    end
    chek=0;
    for j=1:1:6
        if j<6
            if temp1(j)==temp1(j+1)
                chek=1;
            end
            if str2double(temp1(j))>str2double(temp1(j+1))
                break
            end
        end

         if j==6 && chek==1
            an(1,con)=str2double(temp1);
            con=con+1;
        end
    end

end
disp(length(an))
```

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Part 2

```matlab
anf=[]; con2=1;
for i1=1:1:length(an)
    temp2=string(an(i1)); temp2=char(temp2);
    [c,ia,t]=unique(temp2);
    ac=accumarray(t,1);
    if temp2(1)==temp2(3)
        if ismember(5,ac)==1
            continue
        elseif ismember(4,ac)==1 && ismember(2,ac)==1
            anf(1,con2)=str2double(temp2);
            con2=con2+1;
            continue
```

```matlab
        elseif length(c)==3 && ismember(2,ac)==1
            anf(1,con2)=str2double(temp2);
            con2=con2+1;
            continue
        end
    elseif temp2(4)==temp2(6)
        if length(c)==3 && ismember(2,ac)==1
            anf(1,con2)=str2double(temp2);
            con2=con2+1;
            continue
        elseif ismember(4,ac)==1 && ismember(2,ac)==1
            anf(1,con2)=str2double(temp2);
            con2=con2+1;
            continue
        end
    elseif ismember(4,ac)==1
        continue
    elseif ismember(3,ac)==1 && ismember(2,ac)==1
        anf(1,con2)=str2double(temp2);
        con2=con2+1;
        continue
    elseif ismember(3,ac)==1 && length(c)>3
        continue
    else
         anf(1,con2)=str2double(temp2);
         con2=con2+1;
    end

end
disp(length(anf))
```

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