

Advent of Code

--- Day 2: Inventory Management System ---

Problem 1

```
input=string(importdata('input2.txt'));
abc='abcdefghijklmnopqrstuvwxyz';
CM=zeros(2,250);
for i=1:1:length(input)
    for j=1:1:length(abc)
        ic=count(input(1,i),abc(j));
        if ic==2
            CM(1,i)=ic;
        elseif ic==3
            CM(2,i)=ic;
        end
    end
end
sum2=sum(CM(1,:))/2;
sum3=sum(CM(2,:))/3;
result=sum2*sum3;
disp(result)
```

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Problem 2

```
for i1=1:1:length(input)
    for j1=1:1:length(input)
        br=0;
        for c=1:1:26
            comp1=char(input(1,i1));
            comp2=char(input(1,j1));
            if comp1(c)~=comp2(c) && i1~=j1
                br=br+1;
            end
            if br>1
                break
            end
        end
        if br==1
            le=c;
            exp1=i1;
            exp2=j1;
            break
        end
    end
end
if br==1
    break
end
```

```
    end
end
s1=char(input(1,exp1));
s2=char(input(1,exp2));
result2="";
for jf=1:1:26
    if s1(jf)==s2(jf)
        result2=strcat(result2,s1(jf));
    end
end
disp(result2)
```

icxjvbrobtunlelzpdmfkahgs