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# SRM Notes ADDA

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## First Year Elab Level 3 (2021)

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- Caleb is a physicist working for DASA (Domestic Aeronautics and Space Administration) centre.
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- Tina successfully completed her first Month as Navy Officer and her much awaited first month salary got credited into her account and also got her salary report in her mail.
- Krishna has just arrived in the city of Madhura.
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- Simon owned a welding company He bought different types of metal for making different products
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- Binita always dreamed of flying in the sky from her childhood Her gool was to become a pilot
- Zaheer and Vinod went to California for attending the Apple products launch event
- Darsh is basically a watch mechanic
- Tino successfully completed her first Month as Navy Officer and her much awaited first month salary got credited into her account and also got her salary report in her mail.
- Yasir was making a kite

- Central library needs your help!
- Salima was working in one of the famous MNC
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- Nancy is an graduate who lives in a small village.
- Tina and Fazil are bored.
- Arulmozhiarman the famous skill trainer planned to conduct a quiz program for his followers in Facebook
- Simon, Nancy, and Yasir are good friends and set up an iconic company after graduation
- Nathan was so fashion sensitive from his childhood Nathan usually likes to wear different coloured shirts for different days (All 7 days in a week)
- Nowadays many people from different under developed cities across India were coming to Tamil Nadu
- Nathan has the following two types of tax

**Caleb is a physicist working for DASA (Domestic Aeronautics and Space Administration) centre.**

```
#include
```

```
#include
```

```
int main()
```

```
{
```

```
    float gravity,distance,vf;
```

```
    scanf("%f",&distance);
```

```
    gravity=9.8;
```

```
    vf=sqrt(2*distance*gravity);
```

```
    printf("%.2f m/s",vf);
```

```
return 0;}
```

**Shiva is part of the popular construction company in Tamilnadu.**

```
#include
```

```
#include
```

```
int main()
```

```

{
    float base1,base2,height,area;

    scanf("%f %f %f",&base1,&base2,&height);

    area=height*(base1+base2)/2;

    printf("%.2f",area);

return 0;

}

```

**Ford once was going down by loosing all their share values due to the less innovative employees in their company.**

```

#include

int main()

{int seconds,days,hours,minutes;

    scanf("%d",&seconds);

    days=seconds/86400;

    seconds=seconds-86400*days;

    hours=seconds/3600;

    seconds=seconds-3600*hours;

    minutes=seconds/60;

    seconds=seconds-minutes*60;

    printf("The Duration is %d days %d hours %d minutes %d
seconds",days,hours,minutes,seconds);

    return 0;

}

```

**Tina successfully completed her first Month as Navy Officer and her much awaited first month salary got credited into her account and also go her salary report in her mail.**

```
#include

int main()

{

    float basicPay,employeeFund,employerFund;

    scanf("%f",&basicPay);

    employeeFund=(basicPay/100)*17.5;

    employerFund=(basicPay/100)*23.5;

    printf("%.2f\n%.2f",employeeFund,employerFund); return 0;}
```

**Krishna has just arrived in the city of Madhura.**

```
#include

int main()

{

    int m,n;

    float r;scanf("%d %d",&m,&n);

    r=(float)m*(float)n/2;

    printf("%.f",r);return 0;

}
```

**Aarav and Nathan who live in the fictional town of Pune, think and do innovatively on weekends.**

```
#include
```

```

int main()

{

    float a,b;

    scanf("%f %f",&a,&b);

    ((int)a==(int)b)?(printf("Approximate number")):(printf("Not an Approximate
number"));

    return 0;

}

```

**Sathya is an mathematical expert training youngsters struggling in maths to make them better.**

```

#include

#include

int main()

{

    double base,exp,opt;

    scanf("%lf %lf",&base,&exp);

    opt=pow(base,exp);

    printf("%.2lf",opt);

    return 0;}

```

**Zaheer and Vinod went to California for attending the Apple products launch event.**

```

#include

#include

int main()

```

```
{  
  
float appleno;  
  
int x;  
  
scanf("%f",&appleno);  
  
x=(int)appleno;  
  
printf("%d",x%10);  
  
    return 0;  
  
}
```

**Madhan was working as a loco pilot in the Indian railways.**

```
#include  
  
#include  
  
int main()  
  
{  
  
    float distance,meter,feet,inches,centimeter;  
  
    scanf("%f",&distance);  
  
    meter=distance*1000;  
  
    feet=distance*3280.84;  
  
    inches=distance*39370.1;  
  
    centimeter=distance*100000;  
  
    printf("%.2f m\n%.2f ft\n%.2f in\n%.2f cm",meter,feet,inches,centimeter);  
  
    return 0;}
```

**Binita always dreamed of flying in the sky from her childhood.Her goal was to become a pilot.**



```

#include

#include

int main()
{
    float height,bmi;

    int weight;

    scanf("%d %f",&weight,&height);

    bmi=(float)weight/(float)pow(height,2);

    printf("%.2f",bmi);

    return 0;}

```

**Simon loves to listen to music while walking his way to attend boring lectures in his college.**

```

#include

int main()
{
    int L,D;

    int t,n;

    scanf("%d %d",&L,&D);

    t=D/0.5;

    if (t%L==0)

    n=t/L;

    else

    n=1+t/L;

    printf("%d",n);

```

```
return 0;}
```

**Tina and Fazil are bored, so they are playing an infinite game of ping pong.**

```
#include  
  
int main()  
{  
    int x,y,k;  
  
    int total;  
  
    scanf("%d %d %d",&x,&y,&k);  
  
    total=x+y+k;  
  
    if(total%2==0)  
    { printf("Tina");} else {  
        printf("Fazil"); } return 0;}
```

**Simon was working in a Casa Grande.**

```
#include  
  
int main()  
{  
    int side1,side2,side3;  
  
    scanf("%d %d %d",&side1,&side2,&side3);  
  
    if (side1==side2 && side1==side3)  
        printf("Equilateral triangle");  
  
    else if (side1==side2 || side1==side3 || side2==side3)  
        printf("Isosceles triangle");  
  
    else
```

```
printf("Scalene triangle");  
  
return 0;  
  
}
```

**Pongal gifts are a tradition in which children receive money from elder relatives during the Pongal celebration.**

```
#include  
  
int main()  
{  
  
    int a1,a2,a3,c1,c2,c3;  
  
    scanf("%d %d %d %d %d %d",&a1,&a2,&a3,&c1,&c2,&c3);  
  
    if ((a2>=a3 && a3>=a1 && c2>=c3 && c3>=c1)|| (a3>=a1 && a2>=a1 && c3>=c1  
&& c2>=c1)|| (a3>=a1 && a1>=a2 && c3>=c1 && c1>=c2))  
  
        printf("FAIR");  
  
    else if(a1==a3 && a1>=a2 && c1==c3 && c1>=c2)  
  
        printf("NOT FAIR");  
  
    else  
  
        printf("NOT FAIR");  
  
    return 0;}
```

**Nowadays many people from different under developed cities across India were coming to Tamil Nadu for Job opportunities and the owners of different businesses were employing child workers as well as aged people at low salaries which is actually**

## **the violation as per Employment act of Tamil Nadu Government.**

```
#include

int main()

{

int workage;

scanf("%d",&workage);

if (workage<18)

printf("You are Minor\nContinue Your Studies");

else if(workage>=18 && workage<=60)

printf("You are Eligible\nYou can Apply for Job");

else

printf("You are too Old\nPls Collect your Pension");

return 0;

}
```

**Yasir is the chiel in-charge for data collection from candidates applied for M.Tech Programme in his university As a part of data collection university have requested the candidates to mention their Gender (Male or Female)**

```
#include

int main()

{

char gen;
```

```

scanf("%c",&gen);

switch(gen)

{ case 'm':

    printf ("Male");break;

    case'M':

    printf("Male");break;

    case'f':

    printf("Female");break;

    case 'F':

    printf("Female");break;

    default:

    printf("Unspecified Gender");

}

    return 0;

}

```

## **Lee is ill. He goes to Karky the Siddha Doctor.**

```

#include

#include

int main()

{

    int lengthofbook,numofpages; scanf("%d %d",&lengthofbook,&numofpages);

    if (lengthofbook<=23 && 500<=numofpages && numofpages<=1000)

    printf("Take Medicine");

    else

```

```
printf("Don't take Medicine");

return 0;

}
```

**Central library needs your help! Given the expected and actual return dates for a library book, create a program that calculates the fine (if any).**

```
#include

int main()

{ int d1,d2,m1,m2,y1,y2;

  int f;

  scanf("%d %d %d\n",&d2,&m2,&y2);

  scanf("%d %d %d",&d1,&m1,&y1);

  if (d1==d2 && m1==m2 && y1==y2)

    printf("0");

  else if(m1==m2)

    f=15*(d2-d1);

  else if(y1==y2)

    f=500*(m2-m1);

  else if (y1!=0)

    f=10000;

  printf("%d",f);

  return 0;}
```

**Today is Darsh's birthday but I forgot to bring a gift for him.**

```

#include

int main()

{

int favorite_number,first_number,difference;

scanf("%d %d %d",&first_number,&favorite_number,&difference);

if ((favorite_number-first_number)*difference>0 && (favorite_number-
first_number)%difference==0 )

printf("YES");

else

printf("NO");

return 0;

}

```

## **Nathan has the following two types of taxis:**

```

#include

int main()

{ int D,Oc,Of,Od,Fs,Fb,Fm,Fd;

    scanf("%d\n %d %d %d\n %d %d %d %d",&D,&Oc,&Of,&Od,&Fs,&Fb,&Fm,&Fd);

float time,c,c1;

time=(float)D/Fs;

c=(Oc)+Od*(D-Of);

c1=Fb+Fm*time+Fd*D;

if(c1>c)

printf("OLA Taxi");

else if(c1>=c)

```

```
printf("OLA Taxi"); else printf("Fastrack Taxi"); return 0;}
```

**There are K nuclear reactor chambers labelled from 0 to K-1.**

```
#include

int main()

{

int a,n,k,i,b;

scanf("%d%d%d",&a,&n,&k);

for(i=0;i<k;i++){

    b=a%(n+1);

    printf(" %d",b);

    a=a/(n+1);

}

while(a>0){}

    return 0;

}
```

**You are at a party of N people, where only one person is known to everyone.**

```
#include

#include

int main()

{

int t;

scanf("%d",&t);
```



```
while(t--)  
{int n,guest=0,req=0,i,j;  
  
bool got=0;  
  
scanf("%d",&n);  
  
int a[1000][1000];  
  
for(i=0;i<n;i++)  
{for(j=0;j<n;j++)  
{scanf("%d",&a[i][j]);}}  
  
for(i=0;i<n;i++)  
{int count=0;  
  
for(j=0;j<n;j++)  
{if(a[i][j]==1)  
{count++;}}  
  
if(count==0)  
{guest++;}  
  
if(guest==1 && !got)  
{got=1;  
  
req=i+1;}}  
  
if(guest!=1)  
{printf("-1\n");}  
  
else  
  
{printf("%d\n",req);}}  
  
return 0;}
```

**Raju is a Tester in the popular MNC Company.**

```
#include

#include

int main()

{

char para[100000];

int t,n,i,task=0;

scanf("%d",&t);

while(t>0){

scanf("%s",para);

n= strlen(para);

for(i = 0; i < n/2; i++){

if(n%2 !=0){

printf("Not Balanced\n");

task=1;

break;

}

if(para[i]=='{' && para[n-i-1]=='}'){

task=0;

}

else if(para[i] == '(' && para[n-i-1]== '){

task=0;

}

else if(para[i]=='[' && para[n-i-1]== ']){

task=0;
```

```

}

else{

printf("Not Balanced\n");

task=1;

break;

}

}

if(task==0){

printf("Balanced\n");

}

task=0;

t--;

}

return 0;

}

```

**Irfan has a sequence of N integers, A1,A2,...,AN.**

```

#include

int main()

{int t;

scanf("%d", &t);

while(t--){

int no[100],fs[100];

int n,m,i,j;

scanf("%d", &n);

```

```

for(i = 0; i < n; i++){
scanf("%d", &no[i]);
}

scanf("%d", &m);

for(i = 0; i < m; i++){
scanf("%d", &fs[i]);
}

int count = 0;

for(i = 0; i < m; i++){
for(j = 0; j < n ; j++){

if(fs[i] == no[j])

count++;}}

if(count == m)

printf("Yes\n");

else printf("No\n");}return 0;}

```

## **Karthik asks Jessi for a date.**

```

#include

int main()

{int t,s=0,n,bug,i; scanf("%d",&t);

while(t--){

scanf("%d %d",&n, &bug);

int a[n];

for(i=0;i<n;i++){ scanf("%d",&a[i]);

s+=a[i];

```

```

}

if(s>bug){ printf("YES\n");

} else{

printf("NO\n");}

s=0;}return 0;}

```

## **Confused? Well it stands for Welcome To Indian Railways Catering and Tourism Corporation**

```

#include

#include

#include

int main()

{int k,n,i,j,count,l=0;

char str1[101][101],str2[101][101];

char ch[100];

scanf("%d",&k);

for(i=0;i<k;i++)

scanf("%s",str1[i]);

scanf("%d",&n);

i=0;

while(i++!=n)

{scanf("%s",str2[i]);

for(j=0;j<k;j++)

if(!strcmp(str2[i],str1[j]))

count++;

```

```

if(!count)

ch[l++]=toupper(str2[i][0]);

count=0;

}

for(i=0;i<l;i++)

if(i!=(l-1))

printf("%c.",ch[i]); else   printf("%c",ch[i]); return 0;}

```

## Neo and Morpheus are stuck in matrix.

```

#include

#include

int main()

{char direction[1000000];

int x=0,y=0,i;

scanf("%s",direction);

for(i=0;i<strlen(direction);i++)

{if(direction[i]=='L')

x--;

else if(direction[i]=='R')

x++;

else if(direction[i]=='U')

y++;

else if(direction[i]=='D')

y--;

}

```

```
printf("%d %d",x,y);

    return 0;

}
```

## **Krishna has just arrived in the city of Madhura**

```
#include

#include

int main()

{int m,n;

    float f;

    scanf("%d%d",&n,&m);f=(float)(m*n)/2;

    printf("%.0f",ceil(f));

    return 0;}
```

## **AndMozhivarman and his wife Yazhini loves to travel around the world.**

```
#include

int main()

{int mpg;

    float lph;

    scanf("%d",&mpg);

    lph=235.215/mpg;

    printf("%.2f L/100 km",lph);

    return 0;

}
```

**Simon owned a welding company He bought different types of metal for making different products**

```
#include  
  
int main()  
{  
  
    float celsius,fahrenheit;  
  
    scanf("%f",&celsius);  
  
    fahrenheit=(celsius*1.8)+32;  
  
    printf("%.2f fahrenheit",fahrenheit);  
  
    return 0;  
}
```

**Ford once was going down by loosing all their share values due to the less innovative employees in their company.**

```
#include  
  
int main()  
{int seconds,days,hours,minutes;  
  
    int a,b;  
  
    scanf("%d",&seconds);  
  
    days=seconds/86400;  
  
    a=seconds%(24*3600);  
  
    hours=a/3600;  
  
    b=a%3600;
```



```
minutes=b/60;

printf("The Duration is %d days %d hours %d minutes %d
seconds",days,hours,minutes,a%60);

return 0;

}
```

**Binita always dreamed of flying in the sky from her childhood Her goal was to become a pilot**

```
#include

int main()

{

    float height,bmi;

    int weight;

    scanf("%d%f",&weight,&height);

    height=height*height;

    bmi=weight/height;

    printf("%.2f",bmi);

    return 0;

}
```

**Zaheer and Vinod went to California for attending the Apple products launch event**

```
#include

int main()

{

    float appleno;
```

```

int ip,rmd;

scanf("%f",&appleno);

ip=appleno;

rmd=ip%10;

printf("%d",rmd);

    return 0;

}

```

## **Darsh is basically a watch mechanic**

```

#include

int main()

{

    int
days,hours,minutes,seconds,total_days_seconds,total_min_hours,total_minutes_sec
onds,total;

    scanf("%d%d%d%d",&days,&hours,&minutes,&seconds);

    total_days_seconds=days*86400;

    total_min_hours=hours*3600;

    total_minutes_seconds=minutes*60;

    total=total_days_seconds+total_minutes_seconds+total_min_hours+seconds;

    printf("%d seconds",total);

    return 0;

}

```

**Tino successfully completed her first Month as Navy Officer and her much awaited first month salary got**

**credited into her account and also go her salary report in her mail.**

```
#include

int main()

{

    float basicPay,employeeFund,employerFund;

    scanf("%f",&basicPay);

    employeeFund=0.175*basicPay;

    employerFund=0.235*basicPay;

    printf("%.2f\n",employeeFund);

    printf("%.2f\n",employerFund);

    return 0;

}
```

**Yasir was making a kite**

```
#include

#include

int main()

{

    float s1,s2,s3,s,area;

    scanf("%f%f%f",&s1,&s2,&s3);

    s=(s1+s2+s3)/2;

    area=sqrt(s*(s-s1)*(s-s2)*(s-s3));

    printf("%.2f",area);

    return 0;

}
```

```
}
```

## Central library needs your help!

```
#include
```

```
int main()
```

```
{
```

```
    int d1,d2,m1,m2,y1,y2;
```

```
    scanf("%d %d %d",&d1,&m1,&y1);
```

```
    scanf("%d %d %d",&d2,&m2,&y2);
```

```
    if(y1>y2)
```

```
        printf("10000");
```

```
    else if(y1==y2){
```

```
        if(m1>m2)
```

```
            printf("%d",500*(m1-m2));
```

```
        else if(m1==m2){
```

```
            if(d1>d2)
```

```
                printf("%d",15*(d1-d2));
```

```
            else{
```

```
                printf("0");
```

```
            }
```

```
        }
```

```
    else{
```

```
        printf("0");
```

```
    }
```

```
}
```

```
else{  
    printf("0");  
}  
  
return 0;}
```

## **Salima was working in one of the famous MNC**

```
#include  
  
#include  
  
int main()  
{  
  
    float a,b,c;  
  
    float root1,root2,imaginary,discriminant;  
  
    scanf("%f %f %f",&a,&b,&c);  
  
    discriminant=(b*b)-(4*a*c);  
  
    switch(discriminant>0){  
  
        case 1:  
  
            root1=(-b+sqrt(discriminant))/(2*a);  
  
            root2=(-b-sqrt(discriminant))/(2*a);  
  
            printf("%.2f and %.2f",root1,root2);  
  
            break;  
  
        case 0:  
  
            switch(discriminant<0)  
  
            {  
  
                case 1:  
  
                    root1=root2=-b/(2*a);
```

```

        imaginary=sqrt(-discriminant)/(2*a);

        printf("%.2f + i%.2f and %.2f – i%.2f",root1,imaginary,root2,imaginary);

        break;

    case 0:

        root1=root2=-b/(2*a);

        printf("%.2f and %.2f",root1,root2);

        break;

    }

}

return 0;

}

```

## **Yasir has N Dairy Milks.**

```

#include

int main()

{int n;

    scanf("%d",&n);

    if(n%3==0){

        printf("YES");}

    else{

        printf("NO");}

return 0;

}

```

## **Nancy is an graduate who lives in a small village.**

```

#include

```

```
int main()
{
    int travelmode;

    scanf("%d",&travelmode);

    switch(travelmode){

        case 1:

            printf("Car is booked");

            break;

        case 2:

            printf("Bus is booked");

            break;

        case 3:

            printf("Flight is booked");

            break;

        default :

            printf("Invalid Request");

    }

    return 0;
}
```

**Tina and Fazil are bored,**

```
#include
```

```
int main()
```

```
{int x,y,k;
```

```
    int total;
```

```

scanf("%d %d %d",&x,&y,&k);

total=x+y+k;

if(total%2==0){

    printf("Tina");}

else{

    printf("Fazil");}

return 0;

}

```

**Arulmozhivarman the famous skill trainer planned to conduct a quiz program for his followers in Facebook**

```

#include

int main()

{char operator;

    double n1, n2;

    scanf("%c %lf %lf",&operator,&n1,&n2);

    switch(operator){

        case '+':

            printf("%.1f",n1+n2);

            break;

        case '-':

            printf("%.1f",n1-n2);

            break;

        case '*':

            printf("%.1f",n1*n2);

```



```
        break;

    case '/':

        printf("%.1f",n1/n2);

        break;

    default :

        printf("Invalid");}

return 0;

}
```

**Simon, Nancy, and Yasir are good friends and set up an iconic company after graduation**

```
#include

int main()

{

    char alphabet;

    scanf("%c",&alphabet);

    switch(alphabet){

        case 'A':

        case 'E':

        case 'I':

        case 'O':

        case 'U':

        case 'a':

        case 'e':

        case 'i':
```

```
    case 'o':

    case 'u':

        printf("Vowel");

        break;

    default :

        printf("Consonant");

        break;}

return 0;

}
```

**Nathan was so fashion sensitive from his childhood  
Nathan usually likes to wear different coloured shirts  
for different days (All 7 days in a week)**

```
#include

int main()

{

    int days;

    scanf("%d",&days);

    switch(days){

        case 1:

            printf("Azure");

            break;

        case 2:

            printf("Beige");

            break;
```

```
case 3:

    printf("Brick Red");

    break;

case 4:

    printf("Champagne");

    break;

case 5:

    printf("Desert Sand");

    break;

case 6:

    printf("Ivory");

    break;

case 7:

    printf("Pear");

    break;

default :

    printf("Invalid Day");}

return 0;

}
```

**Nowadays many people from different under developed cities across India were coming to Tamil Nadu**

```
#include
```

```
int main()
```

```

{

    int workage;

    scanf("%d",&workage);

    if(workage<18){

        printf("You are Minor\n");

        printf("Continue Your Studies");

    }

    else if(workage>=18 && workage<=60){

        printf("You are Eligible\n");

        printf("You can Apply for Job");

    }

    else{

        printf("You are too Old\n");

        printf("Pls Collect your Pension");

    }

        return 0;

}

```

## **Nathan has the following two types of tax**

```

#include

int main()

{

    int D,Oc,Of,Od,Fs,Fb,Fm,Fd;

    scanf("%d\n %d %d %d\n %d %d %d %d",&D,&Oc,&Of,&Od,&Fs,&Fb,&Fm,&Fd);

    float time,c,c1;

```

```
time=(float)D/Fs;
c=(Oc)+Od*(D-Of);
c1=Fb+Fm*time+Fd*D;
if(c1>=c)
printf("OLA Taxi");
else if(c1>=c)
printf("OLA Taxi");
else
printf("Fastrack Taxi");
    return 0;
}
```