

```
1 #include<stdio.h>
2 int main()
3 {
4     printf("Hello, World!");
5 }
```

	Expected	Got	
✓	Hello, World!	Hello, World!	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     char ch;
4     scanf("%c",&ch);
5     printf("%c",ch);
6 }
```

	Input	Expected	Got	
✓	c	c	c	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int a,b,c,d;
4     float e,f,g,h;
5     scanf("%d%d%f%f",&a,&b,&e,&f);
6     c=a+b;
7     d=a-b;
8     g=e+f;
9     h=e-f;
10    printf("%d %d\n%.1f %.1f",c,d,g,h);
11
12
13 }
```

	Input	Expected	Got	
✓	10 4 4.0 2.0	14 6 6.0 2.0	14 6 6.0 2.0	✓
✓	20 8 8.0 4.0	28 12 12.0 4.0	28 12 12.0 4.0	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```

1 #include<stdio.h>
2 int main(){
3     int a,b,c;
4     int d;
5     char f;
6     scanf("%c\n%d %d %d",&f,&a,&b,&c);
7     d=(a+b+c)/3;
8     printf("%c\n%d",f,d);
9 }
```

	Input	Expected	Got	
✓	A 3 4 6	A 4	A 4	✓
✓	T 7 3 8	T 6	T 6	✓
✓	R 0 100 99	R 66	R 66	✓

Name:R.Gokulnath
 Reg.no:240801085
 Class:ECE-"B"

Passed all tests! ✓

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int a;
4     long b;
5     char c;
6     float d;
7     double e;
8     scanf("%d %ld %c %f %lf",&a,&b,&c,&d,&e);
9     printf("%d\n%ld\n%c\n%.3f\n%.9lf",a,b,c,d,e);
10 }
```

	Input	Expected	Got	
✓	3 12345678912345 a 334.23 14049.30493	3 12345678912345 a 334.230 14049.304930000	3 12345678912345 a 334.230 14049.304930000	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     char r;
4     scanf("%c",&r);
5     printf("%d\n%c %c",r,r-1,r+1);
6 }
```

	Input	Expected	Got	
✓	E	69 D F	69 D F	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int a,b;
4     float c;
5     scanf("%d %d",&a,&b);
6
7     c=(a*30.48)+(b*2.54);
8     printf("%.2f",c);
9
10 }
11
```

	Input	Expected	Got	
✓	5 6	167.64	167.64	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int a,b,c,d,e,f,g;
4     scanf("%d %d",&a,&b);
5     c=a+b;
6     d=a-b;
7     e=a*b;
8     f=a/b;
9     g=a%b;
10    printf("%d\n%d\n%d\n%d\n%d\n",c,d,e,f,g);
11 }
```

	Input	Expected	Got	
✓	100	106	106	✓
	6	94	94	
		600	600	
		16	16	
		4	4	

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int a;
4     float b,c,d;
5     scanf("%d",&a);
6     b=a*3.49;
7     c=b*60/100;
8     d=b-c;
9     printf("Regular price: %.2f\n",b);
10    printf("Discount: %.2f\n",c);
11    printf("Total: %.2f\n",d);
12
13
14 }
```

	Input	Expected	Got	
✓	10	Regular price: 34.90 Discount: 20.94 Total: 13.96	Regular price: 34.90 Discount: 20.94 Total: 13.96	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main()
3 {
4     int x,y;
5     scanf("%d %d",&x,&y);
6     if(x<=y){
7         printf("YES");
8     }
9     else{
10        printf("NO");
11    }
12 }
```

	Input	Expected	Got	
✓	100 110	YES	YES	✓
✓	100 90	NO	NO	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main(){
3     int a;
4     scanf("%d",&a);
5     int m=(a*(a-1)/2);
6     printf("%d",m);
7 }
```

	Input	Expected	Got	
✓	1	0	0	✓
✓	2	1	1	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int a,b,c;
4     scanf("%d %d %d",&a,&b,&c);
5     if(a>b&&a>c){
6         printf("%d",a);
7     }else if(a<b&&b>c){
8         printf("%d",b);
9     }else{
10        printf("%d",c);
11    }
12 }
```

	Input	Expected	Got	
✓	81 26 15	81	81	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,b;
5     scanf("%d %d",&a,&b);
6     if((a%10)==(b%10)){
7         printf("true");
8     }
9     else{
10        printf("false");
11    }
12
13
14 }
```

	Input	Expected	Got	
✓	25 53	false	false	✓
✓	27 77	true	true	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n,opt1,opt2;
4     scanf("%d",&n);
5     opt1=(n%2==0);
6     opt2=(n>=6)&&(n<=20);
7     switch(opt1){
8         case 0:
9             printf("Weird");
10            break;
11        case 1:
12        switch(opt2){
13            case 1:
14                printf("Weird");
15            case 0:
16                printf("Not Weird");
17        }
18    }
19 }
```

	Input	Expected	Got	
✓	3	Weird	Weird	✓
✓	24	Not Weird	Not Weird	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```

1 #include<stdio.h>
2 int main(){
3     int a,b,c;
4     scanf("%d %d %d",&a,&b,&c);
5     if((a*a+b*b==c*c)|| (b*b+c*c==a*a)|| (c*c+a*a==b*b)){
6         printf("yes");
7     }else{
8         printf("no");
9     }
10 }
```

	Input	Expected	Got	
✓	3 5 4	yes	yes	✓
✓	5 8 2	no	no	✓

Passed all tests! ✓

Name:R.Gokulnath
 Reg.no:240801085
 Class:ECE-"B"

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     scanf("%d",&n);
5     switch(n){
6         case 3:
7             printf("Triangle");
8             break;
9         case 4:
10            printf("Quadrilateral");
11            break;
12        case 5:
13            printf("Pentagon");
14            break;
15        case 6:
16            printf("Hexagon");
17            break;
18        case 7:
19            printf("Heptagon");
20            break;
21        case 8:
22            printf("Octogon");
23            break;
24        case 9:
25            printf("Nonagon");
26            break;
27        case 10:
28            printf("Decagon");
29            break;
30        default:
31            printf("The number of sides is not supported.");
32    }
33 }
34 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	3	Triangle	Triangle	✓
✓	7	Heptagon	Heptagon	✓
✓	11	The number of sides is not supported.	The number of sides is not supported.	✓

Passed all tests! ✓

Name:R.Gokulnath

Reg.no:240801085

Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int year;
4     scanf("%d",&year);
5     if(year%12==8){
6         printf("Dragon");
7     }
8     else if(year%12==9){
9         printf("snake");
10    }
11    else if(year%12==10){
12        printf("Horse");
13    }
14    else if(year%12==11){
15        printf("sheep");
16    }
17    else if(year%12==0){
18        printf("Monkey");
19    }
20    else if(year%12==1){
21        printf("Rooster");
22    }
23    else if(year%12==2){
24        printf("Dog");
25    }
26    else if(year%12==3){
27        printf("pig");
28    }
29    else if(year%12==4){
30        printf("Rat");
31    }
32    else if(year%12==5){
33        printf("Ox");
34    }
35    else if(year%12==6){
36        printf("Tiger");
37 }
```

Name:R.Gokulnath

Reg.no:240801085

Class:ECE-"B"

```
36     printf("Dog");
37 }
38 else{
39     printf("Tiger");
40 }
41 }
```

	Input	Expected	Got	
✓	2004	Monkey	Monkey	✓
✓	2010	Tiger	Tiger	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int num,sum;
4     char alpha;
5     scanf("%c %d",&alpha,&num);
6     sum=alpha+num;
7     if(sum%2==0){
8         printf("The square is black.");
9     }
10    else{
11        printf("The square is white.");
12    }
13 }
```

	Input	Expected	Got	
✓	a 1	The square is black.	The square is black.	✓
✓	d 5	The square is white.	The square is white.	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int d,m,y,f;
4     scanf("%d%d%d",&d,&m,&y);
5     if((y%100==0&&y%400==0) || (y%4==0)) f=29;
6     else f=28;
7     if(m==1) printf("%d",d);
8     else if(m==2) printf("%d",d+f);
9     else if(m==3) printf("%d",d+f+31);
10    else if(m==4) printf("%d",d+f+31+30);
11    else if(m==5) printf("%d",d+f+2*31+30);
12    else if(m==6) printf("%d",d+f+3*31+1*30);
13    else if(m==7) printf("%d",d+f+3*31+2*30);
14    else if(m==8) printf("%d",d+f+4*31+2*30);
15    else if(m==9) printf("%d",d+f+4*31+3*30);
16    else if(m==10)printf("%d",d+f+5*31+3*30);
17    else if(m==11)printf("%d",d+f+5*31+4*30);
18    else printf("%d",d+f+6*31+4*30);
19 }
```

	Input	Expected	Got	
✓	18 6 2020	170	170	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main()
3 {
4     int l,b;
5     char s;
6     scanf("%c %d %d",&s,&l,&b);
7     if(s=='T' || s=='S' || s=='R'){
8         if(s=='S')printf("%d", (l*b)/2);
9         else printf("%d", l*b);}
10    else printf("%d", 0);
11 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	T 10 20	200	200	✓
✓	S 30 40	600	600	✓
✓	B 2 11	0	0	✓
✓	R 10 30	300	300	✓
✓	S 40 50	1000	1000	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     scanf("%d",&n);
5     if(n<296) n=(n%10)+1;
6     else{
7         while(n>296) n=n-296;
8         n=(n%10)+1;
9     }
10    if(n==1) printf("Sunday");
11    else if(n==2) printf("Monday");
12    else if(n==3) printf("Tuesday");
13    else if(n==4) printf("Wednesday");
14    else if(n==5) printf("Thursday");
15    else if(n==6) printf("Friday");
16    else if(n==7) printf("Saturday");
17    else if(n==8) printf("Kryptonday");
18    else if(n==9) printf("Coluday");
19    else printf("Daxamday");
20 }
```

	Input	Expected	Got	
✓	7	Kryptonday	Kryptonday	✓
✓	1	Monday	Monday	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```

1 #include<stdio.h>
2 int main(){
3     int T,i=0,n,t;
4     scanf("%d",&T);
5     while(i<T){
6         scanf("%d",&n);
7         t=n/4;
8         if(t%2==0 && n%2==0){
9             printf("No\n");
10        }
11        else if(t%2==1 && n%2==1){
12            printf("No\n");
13        }
14        else{
15            printf("Yes\n");
16        }
17        i++;
18    }
19 }

```

	Input	Expected	Got	
✓	3	Yes	Yes	✓
	1	Yes	Yes	
	6	No	No	
	7			

Passed all tests! ✓

Name:R.Gokulnath

Reg.no:240801085

Class:ECE-"B"

```

1 #include<stdio.h>
2 int main(){
3     int a,b,n=0;
4     scanf("%d",&a);
5     while(a>0){
6         b=a%10;
7         if(b==0 || b==6 || b==9 || b==4){
8             n=n+1;
9         }
10        else if(b==8){
11            n=n+2;
12        }
13        a=a/10;
14    }
15    printf("%d",n);
16 }
```

	Input	Expected	Got	
✓	630	2	2	✓
✓	1288	4	4	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n,r=0;
4     scanf("%d",&n);
5     while(n!=0){
6         n=n/2;
7         r=r+1;
8     }
9     printf("%d",r);
10 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	10	4	4	✓
✓	5	3	3	✓
✓	20	5	5	✓
✓	500	9	9	✓
✓	1000	10	10	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main(){
3     int n,x=0;
4     while(scanf("%d",&n)==1){
5         if(n%2!=0){
6             x++;
7         }
8     }printf("%d",x);
9
10 }
```

	Input	Expected	Got	
✓	5 10 15 20 25 30 35 40 45 50	5	5	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```

1 #include<stdio.h>
2 int main(){
3     int n,x,y=1;
4     scanf("%d",&n);
5     while(n!=0 && y==1){
6         x=n%10;n=n/10;
7         if(x==2 || x==3 || x==4 ||x==7){
8             y++;
9         }
10    }if(y==1){
11        printf("true");
12    }else{
13        printf("false");
14    }
15 }
```

	Input	Expected	Got	
✓	6	true	true	✓
✓	89	true	true	✓
✓	25	false	false	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```

1 #include<stdio.h>
2 int main(){
3     long long n,k,i,nut=0;
4     scanf("%lld %lld",&n,&k);
5     for(i=1;i<=n;i++){
6         nut=nut+i;
7         if(nut==k){
8             nut-=1;
9         }
10    }
11    printf("%lld",nut%1000000007);
12    return 0;
13 }

```

	Input	Expected	Got	
✓	2 2	3	3	✓
✓	2 1	2	2	✓
✓	3 3	5	5	✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Passed all tests! ✓

```
1 #include<stdio.h>
2 int main(){
3     int n,m;
4     scanf("%d",&n);
5     for(int i=0;i<n;i++){
6         scanf("%d",&m);
7         for(int j=0;j<m;j++){
8             for(int k=0;k<m;k++){
9                 if((j+k)%2==0) printf("W");
10                else printf("B");
11            }
12            printf("\n");
13        }
14    }
15 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	2	WBW	WBW	✓
	3	BWB	BWB	
	5	WBW	WBW	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```

1 #include<stdio.h>
2 int main(){
3     int n,m;
4     char o;
5     scanf("%d",&n);
6     for(int i=0;i<n;i++){
7         scanf("%d %c",&m,&o);
8         for(int j=0;j<m;j++){
9             for(int k=0;k<m;k++){
10                if(o=='W'){
11                    if((j+k)%2==0) printf("W");
12                    else printf("B");
13                }
14                else{
15                    if((j+k)%2==0) printf("B");
16                    else printf("W");
17                }
18            }
19            printf("\n");
20        }
21    }
22 }
```

	Input	Expected	Got	
✓	2	WB	WB	✓
	2 W	BW	BW	
	3 B	BWB	BWB	
		WBW	WBW	
		BWB	BWB	

Passed all tests! ✓

Name:R.Gokulnath
 Reg.no:240801085
 Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main() {
3     int v,c=0;
4     scanf("%d",&v);
5     while(v!=0) {
6         c++;
7         int a;
8         scanf("%d",&a);
9         int s1=10,s2=(a*a*10)+10;
10        printf("Case #%d\n",c);
11        for(int i=0;i<a;i++){
12            for(int j=0;j<i;j++){
13                printf("**");
14            }
15            for(int j=0;j<a-i;j++){
16                printf("%d",s1);
17                s1+=10;
18            }
19            for(int j=0;j<a-i;j++){
20                if((j+1)==(a-i)) {
21                    printf("%d",((s2+(j*10))/10));
22                }
23                else{
24                    printf("%d", (s2+(j*10)));
25                }
26            }
27            s2-=(a-i)*10;
28            s2+=10;
29            printf("\n");
30        }
31        v--;
32    }
33 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	3	Case #1	Case #1	✓
	3	10203010011012	10203010011012	
	4	**4050809	**4050809	
	5	****607	****607	
		Case #2	Case #2	
		1020304017018019020	1020304017018019020	
		**50607014015016	**50607014015016	
		****809012013	****809012013	
		*****10011	*****10011	
		Case #3	Case #3	
		102030405026027028029030	102030405026027028029030	
		**6070809022023024025	**6070809022023024025	
		****10011012019020021	****10011012019020021	
		*****13014017018	*****13014017018	
		*****15016	*****15016	

Passed all tests! ✓

Name:R.Gokulnath
 Reg.no:240801085
 Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<math.h>
3 int main(){
4     int n,a=0,j=0,m,k,o;
5     scanf("%d",&n);
6     k=n,o=n;
7     do{
8         n/=10;
9         j++;
10    }while(n>0);
11    for(int y=0;y<j;y++){
12        m=k%10;
13        k/=10;
14        a+=pow(m,j);
15    }
16    if(o==a){
17        printf("true");
18    }
19 }
```

	Input	Expected	Got	
✓	153	true	true	✓
✓	123	false	false	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int rn,n,nt=0,i=0;
4     scanf("%d",&n);
5     do{
6         nt=n;rn=0;
7         while(n!=0){
8             rn=rn*10+n%10;
9             n=n/10;
10        }
11        n=nt+rn;
12        i++;
13    }while(rn!=nt||i==1);
14    printf("%d",rn);
15    return 0;
16 }
```

	Input	Expected	Got	
✓	32	55	55	✓
✓	789	66066	66066	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n=1,i=0,co=0,e,nt;
4     scanf("%d",&e);
5     while(i<e){
6         nt=n;
7         while(nt!=0){
8             co=0;
9             if(nt%10!=3 && nt%10!=4){
10                 co=1;
11                 break;
12             }nt=nt/10;
13         }if(co==0){
14             i++;
15         }
16         n++;
17     }
18     printf("%d",--n);
19     return 0;
20 }
```

	Input	Expected	Got	
✓	34	33344	33344	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main(){
3     int t;
4     scanf("%d",&t);
5     while(t--){
6         int n;
7         scanf("%d",&n);
8         int a[n];
9         for(int i=0;i<n;i++){
10             scanf("%d",&a[i]);
11         }
12         int k;
13         scanf("%d",&k);
14         int flag=0;
15         for(int i=0;i<n;i++){
16             for(int j=i+1;j<n;j++){
17                 if(a[i]-a[j]==k||a[j]-a[i]==k){
18                     flag=1;break;
19                 }
20             }
21             if(flag) break;
22         printf("%d\n",flag);
23     }
24 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	1 3 1 3 5 4	1	1	✓
✓	1 3 1 3 5 99	0	0	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main(){
3     int t;
4     scanf("%d",&t);
5     while(t--){
6         int n,c=0;
7         scanf("%d",&n);
8         for(int i=0;i<=n;i++){
9             if(i%2!=0)
10                c=c+i;
11         }printf("%d\n",c);
12     }
13 }
14 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	3	1	1	✓
	1	1	1	
	2	4	4	
	3			
✓	10	1296	1296	✓
	71	2500	2500	
	100	1849	1849	
	86	729	729	
	54	400	400	
	40	25	25	
	9	1521	1521	
	77	25	25	
	9	49	49	
	13	2401	2401	
	98			

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main(){
3     int s1,s2,ans;
4     scanf("%d",&s1);
5     int ta[s1];
6     for(int i=0;i<s1;i++)
7         scanf("%d",&ta[i]);
8     scanf("%d",&s2);
9     int tb[s2];
10    for(int i=0;i<s2;i++)
11        scanf("%d",&tb[i]);
12    for(int j=0;j<s2;j++){
13        ans=0;
14        for(int i=0;i<s1;i++){
15            if(tb[j]>=ta[i])
16                ans++;
17        }printf("%d\n",ans);
18    }
19 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	4	2	2	✓
	1	4	4	
	4			
	2			
	4			
	2			
	3			
	5			
✓	5	1	1	✓
	2	0	0	
	10	3	3	
	5	4	4	
	4			
	8			
	4			
	3			
	1			
	7			
	8			

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main(){
3     int t,m,n,c=0;
4     scanf("%d",&t);
5     for(int i=0;i<t;i++){
6         c=0;
7         scanf("%d\n%d",&m,&n);
8         int arr[n];
9         for(int j=0;j<n;j++){
10            scanf("%d",&arr[j]);
11        }
12        for(int a=0;a<n-1;a++){
13            for(int b=a+1;b<n;b++){
14                if(arr[a]+arr[b]==m){
15                    printf("%d %d\n",a+1,b+1);
16                    c=1;break;
17                }
18            }if(c==1) break;
19        }
20    }
21    return 0;
22}
23
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	2	1 4	1 4	✓
	4	1 2	1 2	
	5			
	1 4 5 3 2			
	4			
	4			
	2 2 4 3			

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main(){
3     int n,m,c,c1=0,co;
4     scanf("%d",&n);
5     int arr[n];
6     for(int a=0;a<n;a++){
7         scanf("%d",&arr[a]);
8     }
9     scanf("%d",&m);
10    int brr[m],ans[m];
11    for(int b=0;b<m;b++){
12        scanf("%d",&brr[b]);
13    }
14    for(int j=0;j<m;j++)
15    {
16        c=0;
17        for(int i=0;i<n;i++){
18            if(arr[i]==brr[j]){
19                c=1;
20                arr[i]=-1;
21                break;
22            }
23        }
24        if(c==0){
25            ans[c1]=brr[j];
26            c1++;
27        }
28    }
29    for(int a=0;a<c1;a++){
30        co=0;
31        for(int b=0;b<c1;b++){
32            if(ans[b]<ans[a])
33                co++;
34        }
35        int temp=ans[a];
36        ans[a]=ans[co];
37        ans[co]=temp;
38    }
}
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
38 }
39     for(int i=0;i<c1;i++)
40         printf("%d ",ans[i]);
41
42 return 0;
43 }
```

	Input	Expected	Got	
✓	10 203 204 205 206 207 208 203 204 205 206 13 203 204 204 205 206 207 205 208 203 206 205 206 204	204 205 206	204 205 206	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main(){
3     int t,n,Is,rs,m;
4     scanf("%d",&t);
5     for(int i=0;i<t;i++){
6         Is=0;
7         rs=0;
8         scanf("%d",&n);
9         int arr[n];
10        for(int j=0;j<n;j++)
11            scanf("%d",&arr[j]);
12        m=n/2;
13        if(arr[m]==0){
14            for(m=0;arr[m]==0 && m<n;m++);
15        }
16        for(int j=0;j<=m;j++)
17            Is=Is+arr[j];
18        for(int j=m;j<n;j++)
19            rs=rs+arr[j];
20        printf("%s\n", (Is==rs)?"YES":"NO");
21    }
22    return 0;
23 }
24 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	3	YES	YES	✓
	5	YES	YES	
	1 1 4 1 1	YES	YES	
	4			
	2 0 0 0			
	4			
	0 0 2 0			
✓	2	NO	NO	✓
	3	YES	YES	
	1 2 3			
	4			
	1 2 3 3			

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main(){
3     int t;
4     scanf("%d",&t);
5     while(t--)
6     {
7         int n,m,d,min,temp;
8         scanf("%d %d",&n,&m);
9         d=n-m;
10        int arr[n];
11        for(int i=0;i<n;i++)
12            scanf("%d",&arr[i]);
13        for(int j=0;j<n;j++)
14        {
15            min=j;
16            for(int k=j;k<n;k++)
17            {
18                if(arr[k]<arr[min])
19                    min=k;
20            }
21            temp=arr[min];
22            arr[min]=arr[j];
23            arr[j]=temp;
24        }
25        int maxsum=0,minsum=0;
26        for(int a=0;a<d;a++)
27            minsum+=arr[a];
28        for(int b=n-1;b>m-1;b--)
29            maxsum+=arr[b];
30        printf("%d\n",maxsum-minsum);
31    }
32 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	1	4	4	✓
	5 1 1 2 3 4 5			

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,min1,min2,temp,flag=1;
5     scanf("%d",&n);
6     int vac[n],pat[n];
7     for(int i=0;i<n;i++)
8         scanf("%d",&vac[i]);
9     for(int i=0;i<n;i++)
10        scanf("%d",&pat[i]);
11
12     for(int j=0;j<n-1;j++)
13     {
14         min1=j,min2=j;
15         for(int k=j;k<n;k++)
16         {
17             if(vac[k]<vac[min1])
18                 min1=k;
19
20             if(pat[k]<pat[min2])
21                 min2=k;
22         }
23
24         temp=vac[min1];
25         vac[min1]=vac[j];
26         vac[j]=temp;
27
28         temp=pat[min2];
29         pat[min2]=pat[j];
30         pat[j]=temp;
31
32     }
33 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
34     for(int i=0;i<n;i++)
35     {
36         if(vac[i]<=pat[i])
37         {
38             flag=0;
39             break;
40         }
41     }
42     if(flag==1)
43     printf("Yes");
44     else
45     printf("No");
46 }
```

	Input	Expected	Got	
✓	5 123 146 454 542 456 100 328 248 689 200	No	No	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main(){
3     int n,count=0;
4     scanf("%d",&n);
5     int arr[n];
6     for(int i=0;i<n;i++)
7         scanf("%d",&arr[i]);
8     for(int i=0;i<n-1;i++)
9     {
10         for(int j=i+1;j<n;j++)
11         {
12             if((arr[i]^arr[j])==0)
13                 count++;
14         }
15     }
16     printf("%d",count);
17 }
```

	Input	Expected	Got	
✓	5 1 3 1 4 3	2	2	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```

1 #include<stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d",&n);
6     int arr[n];
7     for(int i=0;i<n;i++)
8         scanf("%d",&arr[i]);
9     int max=arr[0];
10    for(int i=1;i<n;i++)
11    {
12        if(arr[i]>max)
13            max=arr[i];
14    }
15    max++;
16    int min=0;
17    for(int a=0;a<n;a++)
18    {
19        for(int b=0;b<n;b++)
20        {
21            if(arr[b]<arr[min])
22                min=b;
23        }
24        printf("%d ",min);
25        arr[min]=max;
26    }
27 }

```

	Input	Expected	Got	
✓	5 4 5 3 7 1	4 2 0 1 3	4 2 0 1 3	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main()
3 {
4     int arr[3][3];
5     for(int i=0;i<3;i++)
6     {
7         for(int j=0;j<3;j++)
8         {
9             scanf("%d",&arr[i][j]);
10        }
11    }
12    int odd=0,even=0;
13    for(int i=0;i<3;i++)
14    {
15        for(int j=0;j<3;j++)
16        {
17            if((i+j)%2!=0)
18                odd+=arr[i][j];
19            else
20                even+=arr[i][j];
21        }
22    }
23    printf("%d\n%d",even,odd);
24 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	1 2 3 4 5 6 7 8 9	25 20	25 20	✓
✓	21 422 423 443 586 645 657 846 904	2591 2356	2591 2356	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 struct data
3 {
4     int gen;int tal;
5 };
6 int main()
7 {
8     int n;
9     scanf("%d",&n);
10    struct data a[n];
11    for(int i=0;i<n;i++)
12        scanf("%d %d",&a[i].gen,&a[i].tal);
13    for(int i=0;i<n-1;i++)
14    {
15        for(int j=0;j<n-i-1;++j)
16        {
17            if(a[j].tal<a[j+1].tal)
18            {
19                struct data temp=a[j];
20                a[j]=a[j+1];
21                a[j+1]=temp;
22            }
23        }
24    }
25 }
26 for(int i=0;i<n;i++)
27 {
28     if(a[i].gen==0)
29         printf("%d ",a[i].tal);
30 }
31 for(int i=0;i<n;++i)
32 {
33     if(a[i].gen==1)
34         printf("%d ",a[i].tal);
35 }
36
37
38 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	5 0 3 1 6 0 2 0 7 1 15	7 3 2 15 6	7 3 2 15 6	✓
✓	6 0 1 0 26 0 39 0 37 0 7 0 13	39 37 26 13 7 1	39 37 26 13 7 1	✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

✓	12 1 12 1 14 1 18 1 1 1 2 1 3 1 5 1 8 1 9 1 10 0 29 0 31	31 29 18 14 12 10 9 8 5 3 2 1	31 29 18 14 12 10 9 8 5 3 2 1	✓
✓	12 0 12 1 12 0 12 1 12 0 12 0 12 1 12 0 12 1 12 1 12 0 12 1 12	12 12 12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12 12 12	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main()
3 {
4     int i,j,n,x1,x2,y1,y2,t=0;
5     long long total=0;
6     int arr[1001][1001]={0};
7     scanf("%d",&n);
8     while(n--)
9     {
10         scanf("%d %d %d %d",&x1,&y1,&x2,&y2,&t);
11         for(i=x1;i<=x2;i++)
12         {
13             for(j=y1;j<=y2;j++)
14             {
15                 if(arr[i][j]==0)
16                     arr[i][j]+=t;
17                 else if(arr[i][j]>0)
18                     arr[i][j]=(-1)*(arr[i][j]+t);
19                 else if(arr[i][j]<0)
20                     arr[i][j]-=t;
21             }
22         }
23     }
24     for(i=1;i<1001;i++)
25     {
26         for(j=1;j<1001;j++)
27         {
28             if(arr[i][j]<0)
29                 total+=arr[i][j];
30         }
31     }
32     printf("%lld\n",(-1)*total);
33     return 0;
34 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	3 1 4 4 6 1 4 3 6 6 2 2 2 5 4 3	35	35	✓
✓	1 48 12 49 27 8	0	0	✓
✓	3 88 34 99 76 44 82 65 94 100 81 58 16 65 66 7	10500	10500	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```

1 #include<stdio.h>
2 int main()
3 {
4     char str[1000];
5     scanf("%s",str);
6     int hash[10]={0,0,0,0,0,0,0,0,0,0,};
7     int temp;
8     for(int i=0;str[i]!='\0';i++)
9     {
10         temp=str[i]-'0';
11         if(temp<=9&&temp>=0)
12         {
13             hash[temp]++;
14         }
15     }
16     for(int i=0;i<=9;i++)
17     {
18         printf("%d ",hash[i]);
19     }
20     return 0;
21 }
```

	Input	Expected	Got	
✓	a11472o5t6	0 2 1 0 1 1 1 1 0 0	0 2 1 0 1 1 1 1 0 0	✓
✓	lw4n88j12n1	0 2 1 0 1 0 0 0 2 0	0 2 1 0 1 0 0 0 2 0	✓
✓	1v88886l256338ar0ekk	1 1 1 2 0 1 2 0 5 0	1 1 1 2 0 1 2 0 5 0	✓

Passed all tests! ✓

Name:R.Gokulnath
 Reg.no:240801085
 Class:ECE-"B"

```

1 #include<stdio.h>
2 int main()
3 {
4     int t;
5     scanf("%d",&t);
6     while(t--)
7     {
8         char str[100000];
9         int count=0;
10        scanf("%s",str);
11        for(int i=0;str[i]!='\0';i++)
12        {
13            char c= str[i];
14            if((c=='a')||(c=='e')||(c=='i')||(c=='o')||(c=='u')||(c=='A')||(c=='E')||(c=='I')||(c=='O')||(c=='U'))
15                count++;
16        }
17        printf("%d\n",count);
18    }
19    return 0;
20 }
```

	Input	Expected	Got	
✓	2 nBBZLaosnm JHkIsnZtTL	2 1	2 1	✓
✓	2 nBBZLaosnm JHkIsnZtTL	2 1	2 1	✓

Name:R.Gokulnath
 Reg.no:240801085
 Class:ECE-"B"

```

1 #include<stdio.h>
2 int main()
3 {
4     char s[1000];
5     scanf("%[^\\n]s",s);
6     for(int i=0;s[i]!='\\0';i++)
7     {
8         if(s[i]!=' ')
9             printf("%c",s[i]);
10        else
11            printf("\\n");
12    }
13    return 0;
14 }
```

	Input	Expected	Got	
✓	This is C	This is C	This is C	✓
✓	Learning C is fun	Learning C is fun	Learning C is fun	✓

Name:R.Gokulnath
 Reg.no:240801085
 Class:ECE-"B"

```

1 #include<stdio.h>
2 int main()
3 {
4     char str1[10],str2[10],t;
5     int i=0,j=0;
6     int count1=0,count2=0;
7     scanf("%s",str1);
8     scanf("%s",str2);
9     while(str1[i]!='\0')
10    {
11        count1++;
12        i++;
13    }
14    while(str2[j]!='\0')
15    {
16        count2++;
17        j++;
18    }
19    printf("%d %d\n",count1,count2);
20    printf("%s%s\n",str1,str2);
21    t=str1[0];
22    str1[0]=str2[0];
23    str2[0]=t;
24    printf("%s %s",str1,str2);
25    return 0;
26 }

```

	Input	Expected	Got	
✓	abcd ef	4 2 abcdef ebcd af	4 2 abcdef ebcd af	✓

Passed all tests! ✓

Name:R.Gokulnath
 Reg.no:240801085
 Class:ECE-"B"

```
1 #include<stdio.h>
2 #include<string.h>
3 int main()
4 {
5     char str1[1000000],str2[1000000];
6     int flag=1;
7     scanf("%s",str1);
8     scanf("%s",str2);
9     int a=strlen(str1);
10    int b=strlen(str2);
11    if(a==b)
12    {
13        for(int i=a-1;i>=0;i--)
14        {
15            while(str1[i]!=str2[i])
16            {
17                for(int j=0;j<=i;j++)
18                {
19                    if(str1[j]<'z')
20                        str1[j]++;
21                    else
22                    {
23                        flag=0;
24                        break;
25                    }
26                    if(flag==0)
27                        break;
28                }
29            }
30        }
31    }
32    else
33        flag=0;
34 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
34  
35     if(flag==0)  
36         printf("NO");  
37     else  
38         printf("YES");  
39     return 0;  
40 }
```

	Input	Expected	Got	
✓	abaca	YES	YES	✓
	cdbda			

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 #include<string.h>
3 int main()
4 {
5     int n,flag=0;
6     char temp;
7     scanf("%d",&n);
8     char words[n][14];
9     for(int i=0;i<n;i++)
10    scanf("%s",words[i]);
11    char reverse[14];
12    for(int i=0;i<n-1;i++)
13    {
14        strcpy(reverse,words[i]);
15        int size=strlen(reverse);
16
17        for(int k=0;k<size/2;k++)
18        {
19            temp=reverse[k];
20            reverse[k]=reverse[size-k-1];
21            reverse[size-k-1]=temp;
22        }
23        for(int j=i+1;j<n;j++)
24        {
25            if(strcmp(reverse,words[j])==0)
26            {
27                flag=1;
28                break;
29            }
30        }
31    }
32    if(flag==1)
33    {
34        printf("The array is not a Palindrome");
35    }
36    else
37    {
38        printf("The array is a Palindrome");
39    }
40 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
30
31     if(flag==1)
32         break;
33     }
34     int len=strlen(reverse);
35     printf("%d %c",len,reverse[len/2]);
36     return 0;
37 }
```

	Input	Expected	Got	
✓	4	3 b	3 b	✓
	abc			
	def			
	feg			
	cba			

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 #include<string.h>
3 int main()
4 {
5     int n;
6     scanf("%d",&n);
7     char res[n][21];
8     int rate[n];
9     for(int i=0;i<n;i++)
10    {
11        scanf("%s",res[i]);
12        scanf("%d",&rate[i]);
13    }
14    int max=rate[0];
15    char ans[20];
16    strcpy(ans,res[0]);
17    for(int i=1;i<n;i++)
18    {
19        if(rate[i]>max)
20        {
21            max=rate[i];
22            strcpy(ans,res[i]);
23        }
24        else if(rate[i]==max)
25        {
26            if(strcmp(res[i],ans)<0)
27                strcpy(ans,res[i]);
28        }
29    }
30    printf("%s",ans);
31    return 0;
32 }
```

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	Input	Expected	Got	
✓	3 Pizzeria 108 Dominos 145 Pizzapizza 49	Dominos	Dominos	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 #include<string.h>
3 int main()
4 {
5     int t;
6     scanf("%d",&t);
7     while(t--)
8     {
9         int flag=1;
10        char s[100000];
11        scanf("%s",s);
12        int k=strlen(s);
13
14        if(k==10)
15        {
16            for(int i=0;i<10;i++)
17            {
18                if(s[0]=='0')
19                {
20                    flag=0;
21                    break;
22                }
23                if(s[i]<'0'||s[i]>'9')
24                {
25                    flag=0;
26                    break;
27                }
28            }
29        }
30        else
31        flag=0;
32        if(flag==1)
33        printf("YES\n");
34        else
35        printf("NO\n");
36    }
37    return 0;
38 }
```

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Class:ECE-"B"

	Input	Expected	Got	
✓	3	YES	YES	✓
	1234567890	NO	NO	
	0123456789	NO	NO	
	0123456.87			

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```

1 /*
2  * Complete the 'fourthBit' function below.
3  *
4  * The function is expected to return an INTEGER.
5  * The function accepts INTEGER number as parameter.
6  */
7
8 int fourthBit(int number)
9 {
10    int binary[32];
11    int i=0;
12    while(number>0)
13    {
14        binary[i]=number%2;
15        number/=2;
16        i++;
17    }
18    if(i>=4)
19    {
20        return binary[3];
21    }
22    else
23    {
24        return 0;
25    }

```

	Test	Expected	Got	
✓	printf("%d", fourthBit(32))	0	0	✓
✓	printf("%d", fourthBit(77))	1	1	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1  /*
2   * Complete the 'pthFactor' function below.
3   *
4   * The function is expected to return a LONG_INTEGER.
5   * The function accepts following parameters:
6   * 1. LONG_INTEGER n
7   * 2. LONG_INTEGER p
8   */
9
10 long pthFactor(long n, long p)
11 {
12     int count=0;
13     for(long i=1;i<=n;++i)
14     {
15         if(n%i==0)
16         {
17             count++;
18             if(count==p)
19             {
20                 return i;
21             }
22         }
23     }
24     return 0;
25 }
```

Name:R.Gokulnath
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Class:ECE-"B"

	Test	Expected	Got	
✓	printf("%ld", pthFactor(10, 3))	5	5	✓
✓	printf("%ld", pthFactor(10, 5))	0	0	✓
✓	printf("%ld", pthFactor(1, 1))	1	1	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 /*  
2  * Complete the 'myFunc' function below.  
3  *  
4  * The function is expected to return an INTEGER.  
5  * The function accepts INTEGER n as parameter.  
6  */  
7  
8 int myFunc(int n)  
9 {  
10    if(n==2) return 0;  
11    while(n>10){  
12        if(n%10==0){  
13            n/=10;  
14        }  
15        else if(n%20==0){  
16            n/=20;  
17        }  
18        else return 0;  
19    }  
20    return 1;  
21}  
22}
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Test	Expected	Got	
✓	printf("%d", myFunc(1))	1	1	✓
✓	printf("%d", myFunc(2))	0	0	✓
✓	printf("%d", myFunc(10))	1	1	✓
✓	printf("%d", myFunc(25))	0	0	✓
✓	printf("%d", myFunc(200))	1	1	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 /*
2 * Complete the 'powerSum' function below.
3 *
4 * The function is expected to return an INTEGER.
5 * The function accepts following parameters:
6 * 1. INTEGER x
7 * 2. INTEGER n
8 */
9 #include<math.h>
10 int powerSum(int x, int m, int n)
11 {
12     if(x==0) return 1;
13     if(x<0||n<1) return 0;
14     int max=(int)pow(m,n);
15     if(m>max) return 0;
16     return powerSum(x-max,m+1,n)+powerSum(x,m+1,n);
17 }
```

	Test	Expected	Got	
✓	printf("%d", powerSum(10, 1, 2))	1	1	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 /*
2  * Complete the 'balancedSum' function below.
3  *
4  * The function is expected to return an INTEGER.
5  * The function accepts INTEGER_ARRAY arr as parameter.
6  */
7 #include<math.h>
8 int balancedSum(int arr_count, int* arr)
9 {
10     int left_sum=0;
11     int right_sum=0;
12
13     for(int i=0;i<arr_count;i++){
14         right_sum+=arr[i];
15     }
16     for(int i=0;i<arr_count;i++){
17         right_sum-=arr[i];
18
19         if(left_sum==right_sum){
20             return i;
21         }
22         left_sum+=arr[i];
23     }
24     return -1;
25 }
26
```

	Test	Expected	Got	
✓	int arr[] = {1,2,3,3}; printf("%d", balancedSum(4, arr))	2	2	✓

Your code failed one or more hidden tests.

Your code must pass all tests to earn any marks. Try again.

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 /*
2  * Complete the 'arraySum' function below.
3  *
4  * The function is expected to return an INTEGER.
5  * The function accepts INTEGER_ARRAY numbers as parameter.
6  */
7
8 int arraySum(int numbers_count, int *numbers)
9 {
10     int sum=0;
11     for(int i=0;i<numbers_count;i++) sum+=numbers[i];
12     return sum;
13 }
14
```

	Test	Expected	Got	
✓	int arr[] = {1,2,3,4,5}; printf("%d", arraySum(5, arr))	15	15	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 /*
2  * Complete the 'minDiff' function below.
3  *
4  * The function is expected to return an INTEGER.
5  * The function accepts INTEGER_ARRAY arr as parameter.
6 */
7 int compare(const void *a,const void *b){
8     return *(int*)a-*(int*)b;
9 }
10 #include<stdlib.h>
11 int minDiff(int arr_count, int* arr)
12 {
13     qsort(arr,arr_count,sizeof(int),compare);
14     int sum=0;
15     for(int i=1;i<arr_count;i++)
16         sum+=abs(arr[i]-arr[i-1]);
17     return sum;
18 }
19
```

	Test	Expected	Got	
✓	int arr[] = {5, 1, 3, 7, 3}; printf("%d", minDiff(5, arr))	6	6	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     scanf("%d",&n);
5     for(int i=0;i<n;i++){
6         int length,width,height;
7         scanf("%d %d %d",&length,&width,&height);
8         if(height<41){
9             int volume=length*width*height;
10            printf("%d\n",volume);
11        }
12    }
13    return 0;
14 }
```

	Input	Expected	Got	
✓	4	125	125	✓
	5 5 5	80	80	
	1 2 40			
	10 5 41			
	7 2 42			

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 #include<stdio.h>
2 #include<math.h>
3 #include<stdlib.h>
4 struct Triangle{
5     int a,b,c;
6     double area;
7 };
8 int compareTriangles(const void *p1,const void *p2){
9     struct Triangle *t1=(struct Triangle *)p1;
10    struct Triangle *t2=(struct Triangle *)p2;
11    if(t1->area<t2->area){
12        return -1;
13    }
14    else if(t1->area>t2->area) return 1;
15    else return 0;
16 }
17 double calculateArea(int a,int b,int c){
18     double s=(a+b+c)/2.0;
19     return sqrt(s*(s-a)*(s-b)*(s-c));
20 }
21 int main(){
22     int n;
23     scanf("%d",&n);
24     struct Triangle triangles[n];
25     for(int i=0;i<n;i++){
26         scanf("%d %d %d",&triangles[i].a,&triangles[i].b,&triangles[i].c);
27         triangles[i].area=calculateArea(triangles[i].a,triangles[i].b,triangles[i].c);
28     }
29     qsort(triangles,n,sizeof(struct Triangle),compareTriangles);
30     for(int i=0;i<n;i++){
31         printf("%d %d %d\n",triangles[i].a,triangles[i].b,triangles[i].c);
32     }
33     return 0;
34 }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

	Input	Expected	Got	
✓	3	3 4 5	3 4 5	✓
	7 24 25	5 12 13	5 12 13	
	5 12 13	7 24 25	7 24 25	
	3 4 5			

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
2 * Complete the 'reverseArray' function below.  
3 *  
4 * The function is expected to return an INTEGER_ARRAY.  
5 * The function accepts INTEGER_ARRAY arr as parameter.  
6 */  
7  
8 */  
9 * To return the integer array from the function, you should:  
10 * - Store the size of the array to be returned in the result_count variable  
11 * - Allocate the array statically or dynamically  
12 *  
13 * For example,  
14 * int* return_integer_array_using_static_allocation(int* result_count) {  
15 *     *result_count = 5;  
16 *  
17 *     static int a[5] = {1, 2, 3, 4, 5};  
18 *  
19 *     return a;  
20 * }  
21 *  
22 * int* return_integer_array_using_dynamic_allocation(int* result_count) {  
23 *     *result_count = 5;  
24 *  
25 *     int *a = malloc(5 * sizeof(int));  
26 *  
27 *     for (int i = 0; i < 5; i++) {  
28 *         *(a + i) = i + 1;  
29 *     }  
30 *  
31 *     return a;  
32 * }  
33 *  
34 */  
35 #include<stdio.h>  
36 int* reverseArray(int arr_count, int *arr, int *result_count) {  
37     *result_count=arr_count;  
38     for(int i=0;i<arr_count/2;i++){  
39         int temp=arr[i];  
40         arr[i]=arr[arr_count-1-i];
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
40     arr[1]=arr[arr_count-1-i];
41     arr[arr_count-1-i]=temp;
42 }
43 return arr;
44 }
45 }
```

	Test	Expected	Got	
✓	int arr[] = {1, 3, 2, 4, 5}; int result_count; int* result = reverseArray(5, arr, &result_count); for (int i = 0; i < result_count; i++) printf("%d\n", *(result + i));	5 4 2 3 1	5 4 2 3 1	✓

Passed all tests! ✓

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
1 /*
2  * Complete the 'cutThemAll' function below.
3  *
4  * The function is expected to return a STRING.
5  * The function accepts following parameters:
6  * 1. LONG_INTEGER_ARRAY lengths
7  * 2. LONG_INTEGER minLength
8 */
9
10 /*
11 * To return the string from the function, you should either do static allocation or dynamic allocation
12 *
13 * For example,
14 * char* return_string_using_static_allocation() {
15 *     static char s[] = "static allocation of string";
16 *
17 *     return s;
18 * }
19 *
20 * char* return_string_using_dynamic_allocation() {
21 *     char* s = malloc(100 * sizeof(char));
22 *
23 *     s = "dynamic allocation of string";
24 *
25 *     return s;
26 * }
27 *
28 */
29 char* cutThemAll(int lengths_count, long *lengths, long minLength) {
30     long total_length=0,remaining_length=0;
31     for(int i=0;i<lengths_count;i++){
32         total_length+=lengths[i];
33     }
34     if(total_length<minLength){
35         return "Impossible";
36     }
37     for(int i=0;i<lengths_count-1;i++){
38         remaining_length+=lengths[i];
39     }
```

Name:R.Gokulnath
Reg.no:240801085
Class:ECE-"B"

```
40 if(remaining_length<minLength) return "Impossible";
41 return "Possible";
42 }
43
```

	Test	Expected	Got	
✓	long lengths[] = {3, 5, 4, 3}; printf("%s", cutThemAll(4, lengths, 9))	Possible	Possible	✓
✓	long lengths[] = {5, 6, 2}; printf("%s", cutThemAll(3, lengths, 12))	Impossible	Impossible	✓

Passed all tests! ✓

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Class:ECE-"B"