WEEK-1

S.L.HARIHARAN
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ECE-'B'

```c
#include<stdio.h>
int main(){
    printf("Hello, World!");
}
```

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

Passed all tests! ✓

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

	Input	Expected	Got	
✓	c	c	c	✓

Passed all tests! ✓

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```c
#include<stdio.h>
int main(){
    int a,b,e,f;
    float c,d,g,h;
    scanf("%d%d%f%f",&a,&b,&c,&d);
    e=a+b;
    f=a-b;
    g=c+d;
    h=c-d;
    printf("%d %d\n%.1f %.1f",e,f,g,h);
}
```

	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! ✓

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

	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	✓

Passed all tests! ✓

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

}
```

	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! ✓

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

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

Passed all tests! ✓

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WEEK 2

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```c
#include<stdio.h>
int main(){

int a,b;
float c;
scanf("%d %d",&a,&b);
c=(a*30.48)+(b*2.54);
printf("%.2f",c);
}
```

	Input	Expected	Got	
✓	5 6	167.64	167.64	✓

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int a,b,c,d,e,f,g,h;
    scanf("%d %d %d",&a,&b,&c);
    d=a+b;
    e=a-b;
    f=a*b;
    g=a/b;
    h=a%b;
    printf("%d\n%d\n%d\n%d\n%d",d,e,f,g,h);
}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int a;
    float b,c,d;
    scanf("%d",&a);
    if (a>0){
    b=a*3.49;
    c=b*60/100;
    d=b-c;
    }
    else{
        b=34.90;
        c=0;
        d=b-c;
    }
    printf("Regular price: %.2f\nDiscount: %.2f\nTotal: %.2f",b,c,d);

}
```

	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! ✓

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SAMPLE OUTPUT 2

NO

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int a,b;
    scanf("%d %d",&a,&b);
    if (b>=a) printf("YES");
    else printf("NO");
}

```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int a,b;
    scanf("%d",&a);
    b=(a*(a-1))/2;
    printf("%d",b);
}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int a,b,c;
    scanf("%d %d %d",&a,&b,&c);
    if (a>b && a>c) printf("%d",a);
    else if (b>c && b>a) printf("%d",b);
    else printf("%d",c);

}
```

	Input	Expected	Got	
✓	81 26 15	81	81	✓

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int a,b;
    scanf("%d %d",&a,&b);
    if ((a%10)==(b%10)) printf("true");
    else printf("false");
}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,opt,opt2;
    scanf("%d",&n);
    opt=(n%2==0);
    opt2=(n>=6)&&(n<=20);
    switch (opt){
        case 0:
        printf("Weird");
        break;
        case 1:
        switch(opt2){
            case 1:
            printf("Weird");
            case 0:
            printf("Not Weird");
        }

    }


}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int a,b,c;
    scanf("%d %d %d",&a,&b,&c);
    if ((a*a+b*b==c*c)||(b*b+c*c==a*a)||(c*c+a*a==b*b)) printf("yes");
    else printf("no");
}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n;
    scanf("%d",&n);
    switch(n){
        case 3:
        printf("Triangle");
        break;
        case 4:
        printf("Qudrilateral");
        break;
        case 5:
        printf("Pentagon");
        break;
        case 6:
        printf("Hexagon");
        break;
        case 7:
        printf("Heptagon");
        break;
        case 8:
        printf("Octagon");
        break;
        case 9:
        printf("Nonagon");
        break;
        case 10:
        printf("Decagon");
        break;
        default:
        printf("The number of sides is not supported.");

    }
}
```

	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! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,year;
    scanf("%d",&year);
    n=(year-1900)%12;
    if (n==4) printf("Dragon");
    else if (n==5) printf("Snake");
    else if (n==6) printf("Horse");
    else if (n==7) printf("Sheep");
    else if (n==8) printf("Monkey");
    else if (n==9) printf("Rooster");
    else if (n==10) printf("Dog");
    else if (n==11) printf("Pig");
    else if (n==0) printf("Rat");
    else if (n==1) printf("Ox");
    else if (n==2) printf("Tiger");
    else if (n==3) printf("Hare");

}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int num,sum;
    char alpha;
    scanf("%c%d",&alpha,&num);
    sum=alpha+num;
    if (sum%2==0){
        printf("The square is black.");
    }
    else {
        printf("The square is white.");
    }

}
```

	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! ✓

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Answer: (penalty regime: 0 %)

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

	Input	Expected	Got	
✓	18 6 2020	170	170	✓

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int l,b;
    char s;
    scanf("%c %d %d",&s,&l,&b);
    if (s=='T'||s=='S'||s=='R'){
        if (s=='S') printf("%d",(l*b)/2);
    else printf("%d",l*b);

    }
    else printf("%d",0);
}
```

	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! ✓

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Answer: (penalty regime: 0 %)

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

}
```

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

Passed all tests! ✓

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ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int y,n,m;
    scanf("%d",&y);
    for(int i=1;i<=y;i++){
        scanf("%d",&n);
        m=n/4;
        if(n%2==0&&m%2==0) printf("No");
        else if (n%2==1&&m%2==1) printf("No");
        else printf("Yes");
        printf("\n");
    }

}
```

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

Passed all tests! ✓

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ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,m,sum=0;
    scanf("%d",&n);
    while(n>=0){
        m=n%10;
        if(m==0||m==4||m==6||m==9) sum+=1;
        else if (m==8) sum+=2;
        n/=10;
        if(n==0) break;

    }
    printf("%d",sum);
}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,sum=0;
    scanf("%d",&n);
    while(n!=0){
        n/=2;
        sum+=1;
    }
    printf("%d",sum);
}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,sum=0;
    while (scanf("%d",&n)==1){
        if(n%2!=0)sum++;
    }
    printf("%d",sum);
}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,m,y=1;
    scanf("%d",&n);
    while(n!=0&&y==1){
        m=n%10;
        n=n/10;
        if(m==2||m==3||m==4||m==5||m==7) y++;
    }
    if(y==1) printf("true");
    else printf("false");



}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    long long int n,t,i,s=0;
    scanf("%lld %lld",&n,&t);
    for(i=1;i<=n;i++){
        s=s+i;
        if(s==t) {
            s=s-1;
        }
    }
    printf("%lld",s%1000000007);
}
```

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

Passed all tests! ✓

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ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,m;
    scanf("%d",&n);
    for(int i=0;i<n;i++){
        scanf("%d",&m);
        for(int j=0;j<m;j++){
            for(int k=0;k<m;k++){
                if((k+j)%2==0) printf("W");
                else printf("B");
            }
            printf("\n");
        }
    }
}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,m;
    char a='W',b='B',c,p;
    scanf("%d",&n);
    for(int i=0;i<n;i++){
        scanf("%d %c",&m,&p);
        if(p=='B') c=a,a=b,b=c;
        for(int j=0;j<m;j++){
            for(int k=0;k<m;k++){
                if((k+j)%2==0) printf("%c",a);
                else printf("%c",b);
            }
            printf("\n");
        }}}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int V,C=0;
    scanf("%d",&V);
    while(V!=0){
        C++;
        int a;
        scanf("%d",&a);
        int s1=10,s2=(a*a*10)+10;
        printf("Case #%d\n",C);
        for(int i=0;i<a;i++){
            for(int j=0;j<i;j++){
                printf("**");
            }
            for(int j=0;j<a-i;j++){
                printf("%d",s1);
                s1+=10;
            }
            for(int j=0;j<a-i;j++){
                if((j+1)==(a-i)){
                    printf("%d",((s2+(j*10)))/10);
                }
                else{
                    printf("%d",(s2+(j*10)));
                }
            }
            s2-=(a-i)*10;
            s2+=10;
            printf("\n");
        }
        V--;
    }

}
```

	Input	Expected	Got	
✓	3 3 4 5	Case #1 1020301011012 **4050809 ****607 Case #2 10203040170180190028 **5060701401501 6 ****80901 2013 ******10011 Case #3 102030405026027028029030 **607080022023024025 ****100110120190200 21 ******13014017018 ********15016	Case #1 1020301011012 **4050809 ****607 Case #2 10203040170180190020 **5060701401501 6 ****80901 2013 ******10011 Case #3 102030405026027028029030 **607080022023024025 ****100110120190200 21 ******13014017018 ********15016	✓

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
#include<math.h>
int main(){
    int num,len=0,original,sum=0,m;
    scanf("%d",&num);
    original=num;
    while(num>0){
        num/=10;
        len++;
    }
    num=original;
    while(num!=0){
        m=num%10;
        sum+=pow(m,len);
        num/=10;
    }
    if(sum==original) printf("true");
    else printf("false");
}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int num,original=0,reversed,i=0;
    scanf("%d",&num);
    do{
        original=num;reversed=0;
        while(num!=0){
            reversed=reversed*10+(num%10);
            num/=10;
        }
        num=original+reversed;
        i++;
    }
    while(reversed!=original||i==1);
    printf("%d",reversed);
}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n=1,i=0,nt,co=0,e;
    scanf("%d",&e);
    while(i<e){
        nt=n;
        while(nt!=0){
            co=0;
            if(nt%10!=3&&nt%10!=4){
                co=1;
                break;
            }
            nt/=10;
        }
        if(co==0) i++;
        n++;
    }
    printf("%d",n-1);
}
```

	Input	Expected	Got	
✓	34	33344	33344	✓

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    while(t--){
        int n,k,s=0;
        scanf("%d",&n);
        int arr[n];
        for(int i=0;i<n;i++) scanf("%d",&arr[i]);
        scanf("%d",&k);
        for(int i=0;i<n;i++){
            for(int j=i+1;j<n;j++){
                if(arr[j]-arr[i]==k||arr[i]-arr[j]==k) s=1;
            }
        }
        printf("%d\n",s==1?1:0);
    }
}
```

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

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    while(t--){
        int n,s=0;
        scanf("%d",&n);
        for(int i=1;i<=n;i++) if(i%2==1) s+=i;
        printf("%d\n",s);
    }
}
```

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

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Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int s1,s2,ans;
    scanf("%d",&s1);
    int ta[s1];
    for(int i=0;i<s1;i++) scanf("%d",&ta[i]);
    scanf("%d",&s2);
    int tb[s2];
    for(int i=0;i<s2;i++) scanf("%d",&tb[i]);
    for(int i=0;i<s2;i++){
        ans=0;
        for(int j=0;j<s1;j++) if(ta[j]<=tb[i]) ans++;
        printf("%d\n",ans);
    }
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,w,max;
    scanf("%d",&n);
    int a[n];
    for(int i=0;i<n;i++) scanf("%d",&a[i]);
    scanf("%d",&w);
    for(int i=0;i<=n-w;i++){
        max=a[i];
        for(int j=1;j<w;j++){
            if(a[i+j]>max) max=a[i+j];
        }
        printf("%d ",max);
    }
}
```

	Input	Expected	Got	
✓	8 1 3 5 2 1 8 6 9 3	5 5 5 8 8 9	5 5 5 8 8 9	✓
✓	10 3 7 5 1 2 9 8 5 3 2 3	7 7 5 9 9 9 8 5	7 7 5 9 9 9 8 5	✓

S.L.HARIHARAN
240801097
ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,th,s=0;
    scanf("%d",&n);
    int a[n];
    for(int i=0;i<n;i++) scanf("%d",&a[i]);
    scanf("%d",&th);
    for(int i=0;i<n;i++){
        s+=a[i]/th;
        if(a[i]%th!=0) s+=1;
    }
    printf("%d",s);
}
```

	Input	Expected	Got	
✓	6 5 8 10 13 6 2 3	17	17	✓
✓	7 20 35 57 30 56 87 30 10	33	33	✓

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
#include<stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    while(t--){
        int n,m;
        scanf("%d %d",&n,&m);
        int a[m];
        for(int i=0;i<m;i++) scanf("%d",&a[i]);
        for(int i=0;i<m-1;i++){
            for(int j=i+1;j<m;j++){
                if(a[i]+a[j]==n){
                    printf("%d %d\n",i+1,j+1);
                    break;
                }
            }
        }
    }
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
#define max 100
int main(){
    int n,m;
    scanf("%d",&n);
    int a1[n];
    for(int i=0;i<n;i++) scanf("%d",&a1[i]);
    scanf("%d",&m);
    int a2[m];
    for(int i=0;i<m;i++) scanf("%d",&a2[i]);
    int freq1[10001]={0},freq2[10001]={0};
    for(int i=1;i<n;i++) freq1[a1[i]]++;
    for(int i=1;i<m;i++) freq2[a2[i]]++;
    for(int i=0;i<10000;i++) if(freq2[i]>freq1[i]) printf("%d ",i);
}
```

	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! ✓

S.L.HARIHARAN
240801097
ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int t,n,i,r,m;
    scanf("%d",&t);
    while(t--){
        i=0,r=0;
        scanf("%d",&n);
        int a[n];
        for(int j=0;j<n;j++){
            scanf("%d",&a[j]);}
        m=n/2;
        if(a[m]==0) for(m=0;a[m]==0&&m<n;m++);
        for(int j=0;j<=m;j++) i=i+a[j];
        for(int j=m;j<n;j++) r=r+a[j];
        printf("%s\n",(i==r)?"YES":"NO");
    }
}
```

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

S.L.HARIHARAN
240801097
ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    while(t--){
        int n,m;
        scanf("%d %d",&n,&m);
        int a[n];
        for(int i=0;i<n;i++) scanf("%d",&a[i]);
        for(int i=0;i<n-1;i++){
            for(int j=i+1;j<n;j++){
                if(a[i]>a[j]){
                    int t=a[i];
                    a[i]=a[j];
                    a[j]=t;
                }
            }
        }

        int max=0,minsum=0,d=n-m;
        for(int o=0;o<d;o++) {
            minsum+=a[o];
        }
        for(int b=n-d;b<n;b++) max+=a[b];

        printf("%d\n",max-minsum);
    }
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,s=0;
    scanf("%d",&n);
    int a1[n],a2[n];
    for(int i=0;i<n;i++) scanf("%d",&a1[i]);
    for(int i=0;i<n;i++) scanf("%d",&a2[i]);
    for(int i=0;i<n;i++) if(a1[i]<a2[i]) s++;
    if(s) printf("No");
    else printf("Yes");
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n,s=0;
    scanf("%d",&n);
    int a[n];
    for(int i=0;i<n;i++) scanf("%d",&a[i]);
    for(int i=0;i<n-1;i++){
        for(int j=i+1;j<n;j++) if(a[i]+a[j]==n) s++;
    }
    printf("%d",s);
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n;
    scanf("%d",&n);
    int a[n],index[n];
    for(int i=0;i<n;i++){
        scanf("%d",&a[i]);
        index[i]=i;
    }
    for(int i=0;i<n-1;i++){
        for(int j=i+1;j<n;j++){
            if(a[i]>a[j]){
                int t=a[i];
                a[i]=a[j];
                a[j]=t;

                t=index[i];
                index[i]=index[j];
                index[j]=t;
            }
        }
    }
    for(int i=0;i<n;i++) printf("%d ",index[i]);
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int a[3][3],s1=0,s2=0;
    for(int i=0;i<3;i++) for(int j=0;j<3;j++) scanf("%d",&a[i][j]);
    for(int i=0;i<3;i++){
        for(int j=0;j<3;j++){
            if(i==j) s1+=a[i][j];
            if((i+j)==2) s1+=a[i][j];
            if((i+j)%2==1) s2+=a[i][j];
        }
    }
    s1-=a[3/2][3/2];
    printf("%d\n%d",s1,s2);
}
```

	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! ✓

S.L.HARIHARAN
240801097
ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n;
    scanf("%d",&n);
    int a[n],f[n],ans=n,fl=n;
    for(int i=n;i>0;i--){
        int ge=i,tal;
        scanf("%d %d",&ge,&tal);
        if(ge>a[ans-1])ans--;
        else f[fl--]=tal;
    }
    for(int i=n;i>ans-1;i--){
        for(int j=i+1;j>ans;j--){
            if(a[j]>a[j]){
                int t=a[j];
                a[j]=a[j];
                a[j]=t;
            }
        }
    }
    for(int i=n;i<fl-1;i++){
        for(int j=i+1;j<fl;j--){
            if(f[j]<f[j]){
                int t=f[j];
                f[j]=f[j];
                f[j]=t;
            }
        }
    }
    for(int i=n;i<fl;i++) printf("%d ",f[i]);
    for(int i=n;i>ans;i--) printf("%d ",a[i]);
}
```

	Input	Expected	Got	
✓	5 0 5 1 6 0 3 0 7 1 15	7 5 3 15 6	7 5 3 15 6	✓
✓	6 0 1 0 16 0 10 0 17 0 7 0 15	10 17 16 15 7 1	10 17 16 15 7 1	✓
✓	12 1 12 1 14 1 18 1 1 1 1 1 5 1 6 1 8 1 4 1 10 0 20 0 11	11 20 18 14 12 10 9 8 6 5 1 1	11 20 18 14 12 10 9 8 6 5 1 1	✓
✓	12 0 12 1 12 0 12 1 12 0 12 0 12 1 12 0 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! ✓

S.L.HARIHARAN
240801097
ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n;
    scanf("%d",&n);
    int arr[1001][1001]={0};
    int x1,y1,x2,y2,t;
    long long tot=0;
    for(int i=0;i<n;i++){
        scanf("%d %d %d %d %d",&x1,&y1,&x2,&y2,&t);
        for(int i=x1;i<=x2;i++){
            for(int j=y1;j<=y2;j++){
                if(arr[i][j]==0) arr[i][j]+=t;
                else if(arr[i][j]>0) arr[i][j]=(-1)*(arr[i][j]+t);
                else if(arr[i][j]<0) arr[i][j]-=t;}}
    }
    for(int i=1;i<1001;i++) {
        for(int j=1;j<1001;j++){
            if(arr[i][j]<0) tot+=arr[i][j];
        }
    }
    printf("%lld\n",(-1)*tot);
}
```

	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	✓

S.L.HARIHARAN
240801097
ECE-'B'

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    char a[1000];
    scanf("%s",a);
    int f[10]={0};
    for(int i=0;a[i]!='\0';i++){
        if(a[i]-'0'>=0&&a[i]-'0'<=9) {
            f[a[i]-'0']++;}
    }
    for(int i=0;i<=9;i++) printf("%d ",f[i]);
}
```

	Input	Expected	Got	
✓	a11472o5t6	0 2 1 0 1 1 1 1 0 0	0 2 1 0 1 1 1 1 0 0	✓
✓	1w4n88j12n1	0 2 1 0 1 0 0 0 2 0	0 2 1 0 1 0 0 0 2 0	✓
✓	1v888861256338ar0ekk	1 1 1 2 0 1 2 0 5 0	1 1 1 2 0 1 2 0 5 0	✓

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
#include<stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    while(t--){
        char s[1000];
        scanf("%s",s);
        int count=0;
        for(int i=0;s[i]!='\0';i++){
            int a=s[i];
            if(a=='a'||a=='e'||a=='i'||a=='o'||a=='u'||a=='A'||a=='E'||a=='I'||a=='O'||a=='U') count++;
        }
        printf("%d\n",count);
    }
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
#include<stdio.h>
int main(){
    char a[1000];
    scanf("%[^\n]s",a);
    for(int i=0;a[i]!='\0';i++){
        if(a[i]!=' ') printf("%c",a[i]);
        else printf("\n");
    }
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
#include<stdio.h>
int main(){
    char a[1000],b[1000];
    scanf("%s\n%s",a,b);
    int la=0,lb=0;
    while(a[la]!='\0') la++;
    while(b[lb]!='\0') lb++;
    printf("%d %d\n",la,lb);
    printf("%s%s\n",a,b);
    int temp=a[0];
    a[0]=b[0];
    b[0]=temp;
    printf("%s %s",a,b);
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
#include<stdio.h>
#include<string.h>
int main(){
    char str1[1000000],str2[1000000];
    int flag=1;
    scanf("%s",str1);
    scanf("%s",str2);
    int a=strlen(str1),b=strlen(str2);
    if(a==b){
        for(int i=a-1;i>=0;i--){
            while(str1[i]!=str2[i]){
                for(int j=0;j<=i;j++){
                    if(str1[j]<'z')str1[j]++;
                    else{
                        flag=0;
                        break;
                    }
                    if(flag==0) break;
                }
            }
        }
    }
    else flag=0;
    printf("%s",flag==1?"YES":"NO");
}
```

	Input	Expected	Got	
✓	abaca cdbda	YES	YES	✓

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
#include<stdio.h>
#include<string.h>
int main(){
    int n,f=0;
    scanf("%d",&n);
    char pas[n][14];
    for(int i=0;i<n;i++) scanf("%s",pas[i]);
    char rev[14];
    for(int i=0;i<n;i++){
        strcpy(rev,pas[i]);
        int s=strlen(pas[i]);
        for(int j=0;j<s/2;j++){
            int t=rev[j];
            rev[j]=rev[s-j-1];
            rev[s-j-1]=t;
        }
        for(int j=i+1;j<n;j++) {
            if(strcmp(rev,pas[j])==0) {
                f=1;
                break;
            }}
        if(f==1) break;
    }
    int s=strlen(rev);
    printf("%d %c",s,rev[s/2]);
}
```

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

S.L.HARIHARAN
240801097
ECE-'B'

```c
#include<stdio.h>
#include<string.h>
int main(){
    int n;
    scanf("%d",&n);
    char res[n][21];
    int rat[n];
    for(int i=0;i<n;i++) scanf("%s %d",res[i],&rat[i]);
    int max=rat[0];
    char ans[20];
    strcpy(ans,res[0]);
    for(int i=0;i<n;i++){
        if(rat[i]>max) max=rat[i],strcpy(ans,res[i]);
        else if(rat[i]==max) if(strcmp(res[i],ans)<0) strcpy(ans,res[i]);
    }
    printf("%s",ans);
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
#include<stdio.h>
#include<string.h>
int main(){
    int t;
    scanf("%d",&t);
    while(t--){
        int fl=1;
        char s[100000];
        scanf("%s",s);
        int k=strlen(s);
        if(k==10&&s[0]!='0') fl=0;
        printf("%s\n",fl==0?"YES":"NO");
    }
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
/*
 * Complete the 'fourthBit' function below.
 *
 * The function is expected to return an INTEGER.
 * The function accepts INTEGER number as parameter.
 */

int fourthBit(int number)
{
    int binary[32];
    int i=0;
    while(number>0){
        binary[i]=number%2;
        number/=2;
        i++;
    }
    if(i>=4) return binary[3];
    else return 0;
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
/*
 * Complete the 'pthFactor' function below.
 *
 * The function is expected to return a LONG_INTEGER.
 * The function accepts following parameters:
 *  1. LONG_INTEGER n
 *  2. LONG_INTEGER p
 */

long pthFactor(long n, long p){
    long f[1000];
    int j=0;
    for(int i=1;i<=n;i++) if(n%i==0) f[j]=i,j++;
    if(f[p-1]!=0) return f[p-1];
    else return 0;
}
```

	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! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
/*
 * Complete the 'myFunc' function below.
 *
 * The function is expected to return an INTEGER.
 * The function accepts INTEGER n as parameter.
 */

int myFunc(int n){
    if(n==1||(n)%10==0||(n)%10==0) return 1;
    else return 0;
}

```

	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	✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
/*
 * Complete the 'powerSum' function below.
 *
 * The function is expected to return an INTEGER.
 * The function accepts following parameters:
 *  1. INTEGER x
 *  2. INTEGER n
 */
#include<math.h>
int powerSum(int x, int m, int n){
    int p=pow(m,n);
    if(p==x)return 1;
    if(p>x) return 0;
    return powerSum(x-p,m+1,n)+powerSum(x,m+1,n);
}
```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
/*
 * Complete the 'balancedSum' function below.
 *
 * The function is expected to return an INTEGER.
 * The function accepts INTEGER_ARRAY arr as parameter.
 */

int balancedSum(int arr_count, int* arr)
{
    int sum=0;
    for(int i=0;i<arr_count;i++) sum+=arr[i];
    int left=0;
    for(int i=0;i<arr_count;i++){
        int right=sum-left-arr[i];
        if(left==right) return i;
        left+=arr[i];
    }
    return 1;
}

```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
/*
 * Complete the 'arraySum' function below.
 *
 * The function is expected to return an INTEGER.
 * The function accepts INTEGER_ARRAY numbers as parameter.
 */

int arraySum(int numbers_count, int *numbers)
{
    int s=0;
    for(int i=0;i<numbers_count;i++) s+=numbers[i];
    return s;
}

```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
/*
 * Complete the 'minDiff' function below.
 *
 * The function is expected to return an INTEGER.
 * The function accepts INTEGER_ARRAY arr as parameter.
 */

int minDiff(int arr_count, int* arr)
{
    for(int i=0;i<arr_count-1;i++){
    for(int j=i+1;j<arr_count;j++){
            if(arr[i]>arr[j]){
                int t=arr[i];
                arr[i]=arr[j];
                arr[j]=t;
            }
        }
    }
    int diff=0;
    for(int i=0;i<arr_count-1;i++) diff+=abs(arr[i]-arr[i+1]);
    return diff;
}

```

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

Passed all tests! ✓

S.L.HARIHARAN
240801097
ECE-'B'

```c
#include<stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    while(t--){
        int l,b,h;
        scanf("%d %d %d",&l,&b,&h);
        if(h<41) printf("%d\n",l*b*h);
    }
}
```

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

Passed all tests! ✓

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```c
#include<stdio.h>
#include<math.h>
typedef struct triangle{
    int a,b,c;
    double area;
}triangle;
double calc_area(int a,int b,int c){
    double p=(a+b+c)/2.0;
    return sqrt(p*(p-a)*(p-b)*(p-c));
};
int main(){
    int n;
    scanf("%d",&n);
    triangle t[n];
    for(int i=0;i<n;i++){
        int a,b,c;
        scanf("%d %d %d",&a,&b,&c);
        t[i].a=a;
        t[i].b=b;
        t[i].c=c;
        t[i].area=calc_area(a,b,c);
    }
    for(int i=0;i<n-1;i++){
        for(int j=i+1;j<n;j++){
            if(t[i].area>t[j].area){
                triangle temp=t[i];
                t[i]=t[j];
                t[j]=temp;
            }
        }
    }
    for(int i=0;i<n;i++) printf("%d %d %d\n",t[i].a,t[i].b,t[i].c);
}
```

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

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```c
/*
 * Complete the 'reverseArray' function below.
 *
 * The function is expected to return an INTEGER_ARRAY.
 * The function accepts INTEGER_ARRAY arr as parameter.
 */

/*
 * To return the integer array from the function, you should:
 *     - Store the size of the array to be returned in the result_count variable
 *     - Allocate the array statically or dynamically
 *
 * For example,
 * int* return_integer_array_using_static_allocation(int* result_count) {
 *     *result_count = 5;
 *
 *     static int a[5] = {1, 2, 3, 4, 5};
 *
 *     return a;
 * }
 *
 * int* return_integer_array_using_dynamic_allocation(int* result_count) {
 *     *result_count = 5;
 *
 *     int *a = malloc(5 * sizeof(int));
 *
 *     for (int i = 0; i < 5; i++) {
 *         *(a + i) = i + 1;
 *     }
 *
 *     return a;
 * }
 *
 */
int* reverseArray(int arr_count, int *arr, int *result_count) {
    *result_count=arr_count;
    for(int i=0;i<arr_count/2;i++){
        int t=arr[i];
        arr[i]=arr[arr_count-i-1];
        arr[arr_count-i-1]=t;
    }
    return arr;
}
```

	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));S.L.HARIHARAN
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		5
		4
		2
		3
		1
			5
			4
			2
			3
			1
				✓

Passed all tests! ✓

```c
/*
 * Complete the 'cutThemAll' function below.
 *
 * The function is expected to return a STRING.
 * The function accepts following parameters:
 *  1. LONG_INTEGER_ARRAY lengths
 *  2. LONG_INTEGER minLength
 */

/*
 * To return the string from the function, you should either do static allocation or dynamic allocation
 *
 * For example,
 * char* return_string_using_static_allocation() {
 *     static char s[] = "static allocation of string";
 *
 *     return s;
 * }
 *
 * char* return_string_using_dynamic_allocation() {
 *     char* s = malloc(100 * sizeof(char));
 *
 *     s = "dynamic allocation of string";
 *
 *     return s;
 * }
 *
 */
char* cutThemAll(int lengths_count, long *lengths, long minLength) {
    long t=0,i=1;
    for(int i=0;i<=lengths_count-1;i++) t+=lengths[i];
    do{
        if(t-lengths[lengths[lengths_count-i-1]]<minLength) return "Impossible";
        i++;
    }while(i<lengths_count-1);
    return "Possible";
}

```

	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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