

Reset answer

```

1 #include <math.h>
2
3 int powerSum(int x, int m, int n) {
4     if (x == 0) {
5         return 1; // Base case: when the sum is achieved
6     }
7     if (x < 0) {
8         return 0; // Base case: invalid partition
9     }
10    int c = 0;
11    // Loop through possible values
12    for (int i = m; pow(i, n) <= x; i++) {
13        int p = pow(i, n); // Calculate i^n
14        c += powerSum(x - p, i + 1, n); // Recursive call with reduced sum
15    }
16    return c; // Return the total count
17 }
    
```

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

Passed all tests! ✓

Finish review

Week-12-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=153281&cmid=397

REC-CIS

Reset drawer

```
1 int myFunc(int n) {
2     // Check divisibility by 10 or 20, or if n is 1
3     if ((n % 10 == 0) || (n % 20 == 0) || (n == 1)) {
4         return 1;
5     }
6     return 0; // Otherwise, return 0
7 }
```

	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! ✓

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=152489&cmid=194

REC-CIS

Reset answer

```
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 }
```

	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! ✓

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=152489&cmid=194

REC-CIS

Answer: (pending review)

Reset answer

```
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     return 0;
24 }
```

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

Passed all tests! ✓

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=151989&cmid=193

REC-CIS

```
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
}
{
    flag=0;
    break;
}
if(s[i]<'0' || s[i]>'9')
{
    flag=0;
    break;
}
}
else
flag=0;
if(flag==1)
printf("YES\n");
else
printf("NO\n");
}
```

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

Passed all tests! ✓

Finish review

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=151989&cmid=193

REC-CIS

SAMPLE OUTPUT

YES
NO
NO

Answer: (penalty regime: 0 %)

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

REC-CIS

```
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 }
```

	Input	Expected	Got	
✓	3 Pizzeria 188 Dominos 145 Pizzapizza 49	Dominos	Dominos	✓

Passed all tests! ✓

Question 4

Correct

Marked out of 1.00

[Flag question](#)

These days Bechan Chacha is depressed because his crush gave him list of mobile number some of them are valid and some of them are invalid. Bechan Chacha has special power that he can pick his crush number only if he has valid set of mobile numbers. Help him to determine the valid numbers.

You are given a string "S" and you have to determine whether it is Valid mobile number or not. Mobile number is valid only if it is of length 10 , consists of numeric values and it shouldn't have prefix zeroes.

Input:

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=151989&cmid=193

REC-CIS

Pizzapizza 49

SAMPLE OUTPUT

Dominos

Explanation

Dominos has maximum points.

Answer: (penalty regime: 0 %)

```
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]);
```


REC-CIS

```
21 }
22 for(int j=i+1;j<n;j++)
23 {
24     if(strcmp(reverse,words[j])!=0)
25     {
26         flag=1;
27         break;
28     }
29 }
30 if(flag==1)
31     break;
32 }
33 int len=strlen(reverse);
34 printf("%d %c",len,reverse[len/2]);
35 return 0;
36 }
```

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

Passed all tests! ✓

Question 3

Correct

Marked out of 1.00

Re-Attempt question

Joey loves to eat Pizza. But he is worried as the quality of pizza made by most of the restaurants is deteriorating. The last few pizzas ordered by him did not taste good :(Joey is feeling extremely hungry and wants to eat pizza. But he is confused about the restaurant from where he should order. As always he asks Chandler for help.

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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REC-CIS

4.
abc
def
feg
cba

SAMPLE OUTPUT

3 b

Answer: (penalty regime: 0 %)

```
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;i++)
13     {
14         strcpy(reverse,words[i]);
15         int size=strlen(reverse);
16         for(int k=0;k<size/2;k++)
17         {
18             temp=reverse[k];
19             reverse[k]=reverse[size-k-1];
20             reverse[size-k-1]=temp;
21     }
```

REC-CIS

```
23         flag=0;
24         break;
25     }
26     if(flag==0)
27         break;
28 }
29 }
30 }
31 }
32 }
33 else
34     flag=0;
35     if(flag==0)
36         printf("NO");
37     else
38         printf("YES");
39 }
40 }
```

	Input	Expected	Got	
✓	abaca	YES	YES	✓
	cdbda			

Passed all tests! ✓

Question 2

Correct

Marked out of 1.00

Flag question

Danny has a possible list of passwords of Manny's facebook account. All passwords length is odd. But Danny knows that Manny is a big fan of palindromes. So, his password and reverse of his password both should be in the list.

You have to print the length of Manny's password and it's middle character.

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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REC-CIS

SAMPLE OUTPUT

YES

Explanation

The string **abaca** can be converted to **bcbda** in one move and to **cdbda** in the next move.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<string.h>
3 int main()
4 {
5     char str1[10000],str2[10000];
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<=1;j++)
18                {
19                    if(str1[j]<'Z')
20                        str1[j]++;
21                    else
22                    {
23                        flag=0;
24                        break;
25                    }
26                }
27                if(flag==0)
```

Answer: (penalty regime: 0 %)

```
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! ✓

In the given string, there are three words (This , is , C). We have to print each of these words in a new line.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     char s[10000];
5     scanf("%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	✓

Passed all tests! ✓

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int t;
5     scanf("%d",&t);
6     while(t-->0)
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 }
```

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

Passed all tests! ✓

Answer: (penalty regime: 0 %)

```
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 }
```

	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	✓
✓	1v888861256338ar0ekkk	1 1 1 2 0 1 2 0 5 0	1 1 1 2 0 1 2 0 5 0	✓

Passed all tests! ✓

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=141222&cmid=189

REC-CIS

```
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 }
```

	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! ✓

Finish review

Simple Illustration of Distribution of Land

For given sample input (see given graph for reference), compensation money for different farmers is as follows:

Farmer with land area A: $C_1 = 5 * 1 = 5$

Farmer with land area B: $C_2 = 6 * 2 = 12$

Farmer with land area C: $C_3 = 6 * 3 = 18$

Total Compensation Money = $C_1 + C_2 + C_3 = 5 + 12 + 18 = 35$

Answer: (penalty regime: 0 %)

```
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-->0)
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     }
```

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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REC-CIS

	0 39 0 37 0 7 0 13			
✓	12 1 12 1 14 1 18 1 1 1 2 1 3 1 5 1 8 1 9 1 10 0 29 0 21	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 0 12 1 12	12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12	✓

Passed all tests! ✓

Question 3

REC-CIS

```
25     if(a[i].gen==0)
26         printf("%d ",a[i].tal);
27     }
28     for(int i=0;i<n;i++)
29     {
30         if(a[i].gen==1)
31             printf("%d ",a[i].tal);
32     }
33 }
```

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

0 7

1 15

SAMPLE OUTPUT

7 3 2 15 6

Answer: (penalty regime: 0 %)

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

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=141222&cmid=189

REC-CIS

Answer: (penalty regime: 0 %)

```
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 }
```

	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! ✓

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=130999&cmid=187

REC-CIS

```
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 2 0 1 3	4 2 0 1 3	✓
	4 5 3 7 1			

Passed all tests! ✓

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=130999&cmid=187

REC-CIS

Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=130999&cmid=187

REC-CIS

```
25     pos{main} pos{,,,}
26     pat[j]=temp;
27 }
28 for(int i=0;i<n;i++)
29 {
30     if(vac[i]<=pat[i])
31     {
32         flag=0;
33         break;
34     }
35 }
36 if(flag==1)
37     printf("Yes");
38 else
39     printf("No");
40 }
```

	Input	Expected	Got	
✓	5	No	No	✓
	123 146 454 542 456			
	180 328 248 689 200			

Passed all tests! ✓

Question 3

Correct

Marked out of 1.00

Flag question

You are given an array of n integer numbers a_1, a_2, \dots, a_n . Calculate the number of pair of indices (i, j) such that $1 \leq i < j \leq n$ and $a_i \text{ xor } a_j = 0$.

Input format

SAMPLE OUTPUT

No

Answer: (penalty regime: 0 %)

```
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     for(int j=0;j<n-1;j++)
12     {
13         min1=j;min2=j;
14         for(int k=j;k<n;k++)
15         {
16             if(vac[k]<vac[min1])
17                 min1=k;
18             if(pat[k]<pat[min2])
19                 min2=k;
20         }
21         temp=vac[min1];
22         vac[min1]=vac[j];
23         vac[j]=temp;
24         temp=pat[min2];
25         pat[min2]=pat[j];
26         pat[j]=temp;
27     }
28 }
```

REC-CIS

```
25     arr[j]=arr[i];
26     arr[j]=temp;
27 }
28 int maxsum=0,minsum=0;
29 for(int a=0;a<d;a++)
30 {
31     minsum+=arr[a];
32 }
33 for(int b=n-1;b>m-1;b--)
34     maxsum+=arr[b];
35 printf("%d\n",maxsum-minsum);
36 }
37 }
```

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

Passed all tests! ✓

Question 2

Correct

Marked out of 1.00

Flag question

A new deadly virus has infected large population of a planet. A brilliant scientist has discovered a new strain of virus which can cure this disease. Vaccine produced from this virus has various strength depending on midichlorians count. A person is cured only if midichlorians count in vaccine batch is more than midichlorians count of person. A doctor receives a new set of report which contains midichlorians count of each infected patient, Practo stores all vaccine doctor has and their midichlorians count. You need to determine if doctor can save all patients with the vaccines he has. The number of vaccines and patients are equal.

Input Format

Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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REC-CIS

Explanation

M is 1 and N is 5 so you have to calculate maximum and minimum sum using $(5-1 =)$ 4 elements.

Maximum sum using the 4 elements would be $(2+3+4+5=)$ 14.

Minimum sum using the 4 elements would be $(1+2+3+4=)$ 10.

Difference will be $14-10=$ 4.

Answer: (penalty regime: 0 %)

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

Week-07-01-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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REC-CIS

12for(int j=0;j<n;j++)

13scanf("%d",&arr[j]);

14m=n/2;

15if(arr[m]==0)

16for(m=0;arr[m]==0 && m<n;m++);

17for(int j=0;j<m;j++)

18is=is+arr[j];

19for(int j=m;j<n;j++)

20rs=rs+arr[j];

21printf("%s\n",(is==rs)?"YES":"NO");

22}

23return 0;

24}

	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! ✓

Finish review

Sample Output 1

YES

YES

YES

Explanation 1

In the first test case, **arr[2] = 4** is between two subarrays summing to **2**.

In the second case, **arr[0] = 2** is between two subarrays summing to **0**.

In the third case, **arr[2] = 2** is between two subarrays summing to **0**.

Answer: (penalty regime: 0 %)

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

REC-CIS

```
21         ans[i]++;
22         break;
23     }
24 }
25 if(c==0)
26 {
27     ans[c1]=brr[j];
28     c1++;
29 }
30 }
31 for(int a=0;a<c1;a++)
32 {
33     c0=0;
34     for(int b=0;b<c1;b++)
35     {
36         if(ans[b]<ans[a])
37             c0++;
38     }
39     int temp=ans[a];
40     ans[a]=ans[c0];
41     ans[c0]=temp;
42 }
43 for(int i=0;i<c1;i++)
44     printf("%d ",ans[i]);
45 return 0;
46 }
```

	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! ✓

204 is present in both arrays. Its frequency in **arr** is **2**, while its frequency in **brr** is **3**. Similarly, **205** and **206** occur twice in **arr**, but three times in **brr**. The rest of the numbers have the same frequencies in both lists.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,m,c,c1=0,c0;
5     scanf("%d",&n);
6     int arr[n];
7     for(int a=0;a<n;a++)
8         scanf("%d",&arr[a]);
9     scanf("%d",&m);
10    int brr[m],ans[m];
11    for(int b=0;b<m;b++)
12        scanf("%d",&brr[b]);
13    for(int j=0;j<m;j++)
14    {
15        c=0;
16        for(int i=0;i<n;i++)
17        {
18            if(arr[i]==brr[j])
19            {
20                c=1;
21                arr[i]=1;
22                break;
23            }
24        }
25        if(c==0)
26        {
27            ans[c1]=brr[j];
28            c1++;
29        }
30    }
31    for(int a=0;a<c1;a++)
32    {
33        c0=0;
34        for(int b=0;b<c1;b++)
```



```
9      scanf("%d\n%d",&m,&n);
10     int arr[n];
11     for(int j=0;j<n;j++)
12     {
13         scanf("%d",&arr[j]);
14     }
15     for(int a=0;a<n-1;a++)
16     {
17         for(int b=a+1;b<n;b++)
18         {
19             if(arr[a]+arr[b]==m)
20             {
21                 printf("%d %d\n",a+1,b+1);
22                 c=1;
23                 break;
24             }
25         }
26         if(c==1)
27             break;
28     }
29     return 0;
30 }
31 }
```

	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! ✓

Explanation

Sunny and Johnny make the following two trips to the parlor:

1. The first time, they pool together $m = 4$ dollars. Of the five flavors available that day, flavors **1** and **4** have a total cost of $1 + 3 = 4$.
2. The second time, they pool together $m = 4$ dollars. Of the four flavors available that day, flavors **1** and **2** have a total cost of $2 + 2 = 4$.

Answer: (penalty regime: 0 %)

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

Week-06-01-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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REC-CIS

```
14  {
15      ans=0;
16      for(int i=0;i<s1;i++)
17      {
18          if(tb[j]>=ta[i])
19              ans++;
20      }
21      printf("%d\n",ans);
22  }
23 }
```

	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! ✓

Explanation 1

We are given, $n = 5$, $nums = [2, 10, 5, 4, 8]$, $m = 4$, and $maxes = [3, 1, 7, 8]$.

1. For $maxes[0] = 3$, we have 1 element in $nums$ ($nums[0] = 2$) that is $\leq maxes[0]$.
2. For $maxes[1] = 1$, there are 0 elements in $nums$ that are $\leq maxes[1]$.
3. For $maxes[2] = 7$, we have 3 elements in $nums$ ($nums[0] = 2$, $nums[2] = 5$, and $nums[3] = 4$) that are $\leq maxes[2]$.
4. For $maxes[3] = 8$, we have 4 elements in $nums$ ($nums[0] = 2$, $nums[2] = 5$, $nums[3] = 4$, and $nums[4] = 8$) that are $\leq maxes[3]$.

Thus, the function returns the array $[1, 0, 3, 4]$ as the answer.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int s1,s2,ans;
5     scanf("%d",&s1);
6     int ta[s1];
7     for(int i=0;i<s1;i++)
8         scanf("%d",&ta[i]);
9     scanf("%d",&s2);
10    int tb[s2];
11    for(int i=0;i<s2;i++)
12        scanf("%d",&tb[i]);
13    for(int j=0;j<s2;j++)
14    {
15        ans=0;
16        for(int i=0;i<s1;i++)
17        {
18            if(tb[j]>=ta[i])
19                ans++;
20        }
21    }
22    printf("%d\n",ans);
23 }
```

Week-06-01-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=120744&cmid=178

REC-CIS

16 | }

	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! ✓

Question 3

Correct

Marked out of 7.00

The number of goals achieved by two football teams in matches in a league is given in the form of two lists. Consider:

- Football team A, has played three matches, and has scored { 1 , 2 , 3 } goals in each match respectively.

Test Case 2: N = 3

Sam buys 1 chocolate on day 1, 0 on day 2, and 3 on day 3. This gives us a total of 4 chocolates. Thus, we print 4 on a new line.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int t;
5     scanf("%d",&t);
6     while(t--)
7     {
8         int n,c=0;
9         scanf("%d",&n);
10        for(int i=0;i<n;i++)
11        {
12            if(i%2!=0) c=c+i;
13        }
14        printf("%d\n",c);
15    }
16 }
```

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

REC-CIS

```
21         if(a[i]-a[j]==k || a[j]-a[i]==k)
22         {
23             c++;
24             break;
25         }
26         if(c)
27         {
28             break;
29         }
30     }
31     }
32     printf("%d\n",c);
33 }
34 }
```

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

Passed all tests! ✓

Question 2

Correct

Marked out of 5.00

Flag question

Sam loves chocolates and starts buying them on the 1st day of the year. Each day of the year, x , is numbered from 1 to Y . On days when x is odd, Sam will buy x chocolates; on days when x is even, Sam will not purchase any chocolates.

Complete the code in the editor so that for each day N_i (where $1 \leq x \leq N \leq Y$) in array arr , the number of chocolates Sam purchased (during

99

Output:

0

Answer: (penalty regime: 0 %)

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


Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int con(int a)
3 {
4     int c=a;
5     while(c!=0)
6     {
7         int d=c%10;
8         if(d%3 == d%4) return 0;
9         c/=10;
10    }
11    return 1;
12 }
13 int main()
14 {
15     int a,b=0;
16     scanf("%d",&a);
17     while(a!=0)
18     {
19         b++;
20         if(con(b))
21         {
22             a--;
23         }
24     }
25     printf("%d",b);
26 }

```

	Input	Expected	Got	
✓	34	33344	33344	✓

Passed all tests! ✓

Correct

Marked out of 5.00

Flag question

Sample Input 1 32 Sample Output 1 55 Sample Input 2 789 Sample Output 2 66066

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int rn,n,nt=0,i=0;
5     scanf("%d",&n);
6     do{
7         nt=n;rn=0;
8         while(n!=0){
9             rn=rn*10+n%10;
10            n=n/10;
11        }
12        n=nt+rn;
13        i++;
14    }
15    while(rn!=nt || i==1);
16    printf("%d",rn);
17 }
```

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

Passed all tests! ✓

```

17  int d=C%10;
18  int f=1;
19  for(int i=0;i<e;i++)
20  {
21      f*=d;
22  }
23  b+=f;
24  c/=10;
25  }
26  if(a==b)
27  printf("true");
28  else
29  printf("false");
30  }
    
```

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

Passed all tests! ✓

Question 2

Correct

Marked out of 5.00

Flag question

Take a number, reverse it and add it to the original number until the obtained number is a palindrome. Constraints $1 \leq \text{num} \leq 999999999$
 Sample Input 1 32 Sample Output 1 55 Sample Input 2 789 Sample Output 2 66066

Answer: (penalty regime: 0 %)

```

1  #include<stdio.h>
2  int main()
3  {
4      int rn,n,nt=0,i=0;
5      scanf("%d",&n);
6      do{
    
```

Output:

true

Note:

$1 \leq N \leq 10^8$

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,b=0,c,e=0;
5     scanf("%d",&a);
6     if(a<0)
7         a=-a;
8     c=a;
9     while(c!=0)
10    {
11        c/=10;
12        e++;
13    }
14    c=a;
15    while(c!=0)
16    {
17        int d=c%10;
18        int f=1;
19        for(int i=0;i<e;i++)
20        {
21            f*=d;
22        }
23        b+=f;
```

```

31         s2--(a-1)*10;
32         s2+=10;
33         printf("\n");
34     }
35     v--;
36 }
37 }

```

	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! ✓

Finish review

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int v,c=0;
5     scanf("%d",&v);
6     while(v!=0)
7     {
8         c++;
9         int a;
10        scanf("%d",&a);
11        int s1=10,s2=(a*a*10)+10;
12        printf("Case #d\n",c);
13        for(int i=0;i<a;i++)
14        {
15            for(int j=0;j<i;j++)
16            {
17                printf(" ");
18            }
19            for(int j=0;j<a-i;j++)
20            {
21                printf("%d",s1);
22                s1+=10;
23            }
24            for(int j=0;j<a-i;j++)
25            {
26                if((j+1)==(a-i))
27                    printf("%d",((s2+(j*10))/10));
28                else
29                    printf("%d", (s2+(j*10)));
30            }
31            s2=(a-i)*10;
32            s2+=10;
33            printf("\n");
34        }
35        v--;
36    }
37 }
```

```

21         if((x%2)==0)
22         {
23             if(a=='W')
24                 a='B';
25             else
26                 a='W';
27         }
28         printf("\n");
29     }
30     v--;
31 }
32

```

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

Passed all tests! ✓

Question 3

Correct

Marked out of 7.00

Flag question

Decode the logic and print the Pattern that corresponds to given input.

If N= 3

then pattern will be :

Answer: (penalty regime: 0 %)

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


REC-CIS

```
24         d= w ;
25     }
26     printf("\n");
27     if(x%2==0)
28     {
29         if(a=='W')
30             a='B';
31         else
32             a='W';
33     }
34     v--;
35 }
36 }
37 }
```

	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! ✓

Question 2

Correct

Marked out of 5.00

Let's print a chessboard!

Write a program that takes input:

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int v;
5     scanf("%d",&v);
6     while(v>0)
7     {
8
9         int x;
10        scanf("%d",&x);
11        if(x<0)
12        {
13            x=-x;
14        }
15        char a='W';
16        for(int i=0;i<x;i++)
17        {
18            for(int j=0;j<x;j++)
19            {
20                printf("%c",a);
21                if(a=='W')
22                    a='B';
23                else
24                    a='W';
25            }
26            printf("\n");
27            if(x%2==0)
28            {
29                if(a=='W')
30                    a='B';
31                else
32                    a='W';
33            }
34        }
35        v--;
36    }
37 }
```

REC-CIS

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     long int n,k,sum;
5     scanf("%ld %ld",&n,&k);
6     sum=0;
7     for(int i=1;i<=n;i++){
8         sum+=i;
9         if(sum==k)
10            sum-=1;
11     }
12     printf("%ld",sum%1000000007);
13     return 0;
14 }
```

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

Passed all tests! ✓

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int a,ch;
5     scanf("%d",&a);
6     while(a!=0)
7     {
8         int b=a%10;
9         a=a/10;
10        switch(b)
11        {
12            case 0:
13            case 6:
14            case 8:
15            case 9:
16                ch=0;
17                break;
18            default:
19                ch=1;
20        }
21    }
22    if(ch==1)
23        printf("false");
24    else
25        printf("true");
26 }
    
```

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

Passed all tests! ✓

Week-04-02-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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REC-CIS

Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

Question 2

Week-04-01-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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REC-CIS

Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,digit;
5     scanf("%d",&n);
6     int s=0;
7     while(n!=0){
8         digit=n%10;
9         if(digit==8){
10             s+=2;
11         }
12         else if((digit==9)|| (digit==0)|| (digit==6)){
13             s+=1;
14         }
15         n/=10;
16     }
17     printf("%d",s);
18 }
```

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

Passed all tests! ✓

REC-CIS

Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

REC-CIS

```

20
21
22 case 4:
23     printf("Thursday\n");
24     break;
25 case 5:
26     printf("Friday\n");
27     break;
28 case 6:
29     printf("Saturday\n");
30     break;
31 case 7:
32     printf("Kryptonday\n");
33     break;
34 case 8:
35     printf("coluday\n");
36     break;
37 case 9:
38     printf("Daxamday\n");
39     break;
40 }

```

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

Passed all tests! ✓

Finish review

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d",&n);
6     int dayindex=(n%296)%10;
7     switch(dayindex)
8     {
9         case 0:
10            printf("Sunday\n");
11            break;
12         case 1:
13            printf("Monday\n");
14            break;
15         case 2:
16            printf("Tuesday\n");
17            break;
18         case 3:
19            printf("Wednesday\n");
20            break;
21         case 4:
22            printf("Thursday\n");
23            break;
24         case 5:
25            printf("Friday\n");
26            break;
27         case 6:
28            printf("Saturday\n");
29            break;
30         case 7:
31            printf("Kryptonday\n");
32            break;
33         case 8:
34            printf("coluday\n");
35            break;
36         case 9:
37            printf("Daxamday\n");
38            break;
39     }
40 }
```

```

19 }
20 else
21 {
22     printf("%d\n");
23 }
24 }
    
```

	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! ✓

Question 3
Correct

Superman is planning a journey to his home planet. It is very important for him to know which day he arrives there. They don't follow the 7-day week like us. Instead, they follow a 10-day week with the following days: Day Number Name of Day 1 Sunday 2 Monday 3 Tuesday 4

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     char shape;
5     int side1, side2;
6     scanf("%c", &shape);
7     scanf("%d %d", &side1, &side2);
8     if(shape=='R')
9     {
10         printf("%d\n", side1*side2);
11     }
12     else if(shape=='S')
13     {
14         printf("%d\n", (side1*side2)/2);
15     }
16     else if(shape=='T')
17     {
18         printf("%d\n", side1*side2);
19     }
20     else
21     {
22         printf("\n");
23     }
24 }
```

	Input	Expected	Got	
✓	T 10 20	200	200	✓
✓	S 30 40	600	600	✓

```
21     if(mon>7)
22         day+=31;
23     if(mon>8)
24         day+=31;
25     if(mon>9)
26         day+=30;
27     if(mon>10)
28         day+=31;
29     if(mon>11)
30         day+=30;
31     }
32     printf("%d",day);
33 }
```

	Input	Expected	Got	
✓	18 6 2020	170	170	✓

Passed all tests! ✓

Question 2

Correct

Marked out of 5.00

[Flag question](#)

Suppandi is trying to take part in the local village math quiz. In the first round, he is asked about shapes and areas. Suppandi, is confused, he was never any good at math. And also, he is bad at remembering the names of shapes. Instead, you will be helping him calculate the area of shapes.

- When he says rectangle he is actually referring to a square.
- When he says square, he is actually referring to a triangle.
- When he says triangle he is referring to a rectangle

```
1 #include<stdio.h>
2 int main()
3 {
4     int day,mon,yr,is_leap;
5     scanf("%d %d %d",&day,&mon,&yr);
6     if(((yr%4==0)&&(yr%100!=0))|| (yr%400==0))
7     is_leap=1;
8     {
9         if(mon>1)
10            day+=31;
11         if(mon>2)
12            day+=is_leap? 29:28;
13         if(mon>3)
14            day+=31;
15         if(mon>4)
16            day+=30;
17         if(mon>5)
18            day+=31;
19         if(mon>6)
20            day+=30;
21         if(mon>7)
22            day+=31;
23         if(mon>8)
24            day+=31;
25         if(mon>9)
26            day+=30;
27         if(mon>10)
28            day+=31;
29         if(mon>11)
30            day+=30;
31     }
32     printf("%d",day);
33 }
```

Input	Expected	Got
1	29	29

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 #include<ctype.h>
3 int main()
4 {
5     char column,row;
6     scanf("%c %c", &column, &row);
7     column = tolower(column);
8     int initial_colour = (column == 'a' || column == 'h')?1:0;
9     int square_colour = (initial_colour + (row - '1'))%2;
10    if(square_colour == 1)
11    {
12        printf("The square is black.");
13    }
14    else
15    {
16        printf("The square is white.");
17    }
18    return 0;
19 }
```

	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! ✓

Finish review

Tiger

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int year;
5     char *animals [] = {"Dragon","Snake","Horse","Sheep","Monkey","Rooster","Dog","Pig","Rat","Ox","Tiger","Hare"};
6     scanf("%d", &year);
7     int index = (year - 2000)%12;
8     printf("%s\n",animals[index]);
9     return 0;
10 }
```

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

Passed all tests! ✓

REC-CIS

```
20     case 7:
21         printf("Heptagon");
22         break;
23     case 8:
24         printf("Octagon");
25         break;
26     case 9:
27         printf("Nonagon");
28         break;
29     case 10:
30         printf("Decagon");
31         break;
32     default:
33         printf("The number of sides is not supported.");
34     }
35 }
```

	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! ✓

Question 2

Correct

Marked out of 5.00

Flag question

The Chinese zodiac assigns animals to years in a 12-year cycle. One 12-year cycle is shown in the table below. The pattern repeats from there, with 2012 being another year of the Dragon, and 1999 being another year of the Hare.

Year	Animal
------	--------

```
1 #include<stdio.h>
2 int main()
3 {
4     int sides;
5     scanf("%d",&sides);
6     switch(sides)
7     {
8         case 3:
9             printf("Triangle");
10            break;
11         case 4:
12            printf("Quadrilateral");
13            break;
14         case 5:
15            printf("Pentagon");
16            break;
17         case 6:
18            printf("Hexagon");
19            break;
20         case 7:
21            printf("Heptagon");
22            break;
23         case 8:
24            printf("Octagon");
25            break;
26         case 9:
27            printf("Nonagon");
28            break;
29         case 10:
30            printf("Decagon");
31            break;
32         default:
33            printf("The number of sides is not supported.");
34     }
35 }
```

7.00

Flag question

5 4 Sample Output 1 yes Sample Input 2 5 8 2 Sample Output 2 no

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,b,c;
5     scanf("%d %d %d", &a, &b, &c);
6     if((a*a + b*b == c*c) || (b*b + c*c == a*a) || (c*c + a*a == b*b))
7     {
8         printf("yes\n");
9     }
10    else
11    {
12        printf("no\n");
13    }
14 }
```

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

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main ()
3 {
4     int n;
5     scanf("%d", &n);
6     if(n%2 != 0)
7         printf("Weird");
8     else if ((n%2 == 0) && (n<=5))
9         printf("Not Weird");
10    else if((n%2 == 0) && (n<=20))
11        printf("Weird");
12    else if((n%2 == 0) && (n>20))
13        printf("Not Weird");
14    return 0;
15 }
```

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

Passed all tests! ✓

Question 3

Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third. For example, 3, 5 and 4

Correct

Marked out of 3.00

Flag question

and 768 are given, program should print true as they both end with 8. Sample Input 1 25 53 Sample Output 1 false Sample Input 2 27 77 Sample Output 2 true

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int num1,num2;
5     scanf("%d %d", &num1, &num2);
6     if(num1%10==num2%10)
7     {
8         printf("true");
9     }
10    else
11    {
12        printf("false");
13    }
14    return 0;
15 }
```

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

Passed all tests! ✓

Answer: (penalty regime: 0 %)

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

	Input	Expected	Got	
✓	81 26 15	81	81	✓

Passed all tests! ✓

Finish review

Explanation Case 1: The lonely board member shakes no hands, hence 0. Case 2: There are 2 board members, 1 handshake takes place.

Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

Week-02-02-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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REC-CIS

100 90

SAMPLE OUTPUT 2

NO

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int a, b;
5     scanf("%d", &a);
6     scanf("%d", &b);
7     if(b<a){
8         printf("NO");
9     }
10    else{
11        printf("YES");
12    }
13 }
```

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

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int f=5;
5     int i=6;
6     float cm;
7     scanf("%d",&f);
8     scanf("%d",&i);
9     cm=(f*i+2.54);
10    printf("%.2f\n",cm);
11    return 0;
12 }
```

	Input	Expected	Got	
✓	5	167.64	167.64	✓
	6			

Passed all tests! ✓

Question 2
Incorrect

Create a program that reads two integers, a and b, from the user. Your program should compute and display: • The sum of a and b • The difference when b is subtracted from a • The product of a and b • The quotient when a is divided by b • The remainder when a is divided by b

Answer: (penalty regime: 0 %)

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

	Input	Expected	Got	
✓	10 4 4.0 2.0	14 6 6.0 2.0	14 6 6.0 2.0	✓
✓	20 8 5.0 4.0	28 12 12.0 4.0	28 12 12.0 4.0	✓

Passed all tests! ✓

FILL THE VAPORCHUTE, LTD.

```
1 #include<stdio.h>
2 int main()
3 {
4     char ch;
5     scanf("%c", &ch);
6     printf("%c",ch);
7     return 0;
8 }
```

	Input	Expected	Got	
✓	c	c	c	✓

Passed all tests! ✓

Week-01-01-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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REC-CIS

Sample Output

Hello, World!

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4
5     printf("Hello, World!");
6     return 0;
7 }
```

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

Passed all tests! ✓

Coding-C-Language Features-Optional: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=80485&cmid=24

REC-CIS

Reset answer

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

```
#include <stdio.h>

int main()
{
    printf("Hello C");
    return 0;
}
```

	Expected	Got	
✓	Hello C	Hello C	✓

Passed all tests! ✓

Finish review

Coding-C-Language Features-Optional: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=80485&cmid=24

REC-CIS

Reset answer

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

```
#include <stdio.h>

int main()
{
    printf("I love Mangoes");
    return 0;
}
```

	Expected	Got	
✓	I love Mangoes	I love Mangoes	✓

Passed all tests! ✓

Question 2

Given below is a simple program written in C language.