

Programming Using C

week 03 practice session coding

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Question 1

Correct

Marked out of 1.00

Flag question

Write a program to read two integer values and print true if both the numbers end with the same digit, otherwise print false. Example: If 698 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 a,b,c,d;
5     scanf("%d%d",&a,&b);
6     c=a%10;
7     d=b%10;
8     if(c==d)
9     {
10         printf("true");
11     }
12     else
13     {
14         printf("false");
15     }
16     return 0;
17 }
```

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

Passed all tests! ✓

Sample Input 1

24

Sample Output 1

Not Weird

Explanation

Sample Case 0: $n = 3$

n is odd and odd numbers are weird, so we print **Weird**.

Sample Case 1: $n = 24$

$n > 20$ and n is even, so it isn't weird. Thus, we print **Not Weird**.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d",&n);
6     if (n%2 == 1)
7     {
8         printf("Weird");
9     }
10    else if(n%2 && n<5)
11    {
12        printf("Not Weird");
13    }
14    else if(n%6 && n>20)
15    {
16        printf("Weird");
17    }
18    else
19    {
20        printf("Not Weird");
21    }
22    return 0;
23 }
```

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

Passed all tests! ✓

Question 3

Correct

Marked out of 1.00

Flag question

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 form a Pythagorean triple, since $3^2 + 4^2 = 25 = 5^2$. You are given three integers, a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters. Sample Input 1 3 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((c*c) == (b*b) + (a*a))
7     {
8         printf("yes");
9     }
10    else if((c*c) == (a*a) + (b*b))
11    {
12        printf("yes");
13    }
14    else if((a*a) == (b*b) + (c*c))
15    {
16        printf("yes");
17    }
18    else
19    {
20        printf("no");
21    }
22    return 0;
23 }
24
```

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

Passed all tests! ✓

Write a program that determines the number of digits (number of sides) that the number of sides has the user and then output the appropriate value as part of a meaningful message. The program should support digits with exponents from 1 up to and including 10. Note: It is a number of sides outside of this range is entered then your program should display an appropriate error message.

Sample Input 1

5

Sample Output 1

Triangle

Sample Input 2

11

Sample Output 2

Hexagon

Sample Input 3

11

Sample Output 3

The number of sides is not supported.

Answer (correctly explains 0/0)

```
1 // Write a program that determines the number of digits (number of sides) that the number of sides has the user and then output the appropriate value as part of a meaningful message. The program should support digits with exponents from 1 up to and including 10. Note: It is a number of sides outside of this range is entered then your program should display an appropriate error message.
2
3 #include <iostream>
4 using namespace std;
5
6 int main()
7 {
8     int n;
9     while (n < 1 || n > 10)
10     {
11         cout << "Please enter a number between 1 and 10: ";
12         cin >> n;
13     }
14     switch (n)
15     {
16         case 3:
17             cout << "Triangle";
18             break;
19         case 4:
20             cout << "Quadrilateral";
21             break;
22         case 5:
23             cout << "Pentagon";
24             break;
25         case 6:
26             cout << "Hexagon";
27             break;
28         case 7:
29             cout << "Heptagon";
30             break;
31         case 8:
32             cout << "Octagon";
33             break;
34         case 9:
35             cout << "Nonagon";
36             break;
37         case 10:
38             cout << "Decagon";
39             break;
40         default:
41             cout << "The number of sides is not supported.";
42             break;
43     }
44     return 0;
45 }
```

Input	Expected	Got
3	Triangle	Triangle
4	Quadrilateral	Quadrilateral
11	The number of sides is not supported.	The number of sides is not supported.

Result of test 1 of 1

While it is possible that results a year from the user and display, the system associated with that year. These programs should work correctly for any year greater than or equal to zero, and not for the year listed in the input.

Example 1

Source: National Bureau of Economic Research.

Source: *Author's calculations*.

100

Source: United States Census Bureau, *Current Population Reports*, 1990.

1

	Input	Expected	Got	
✓	0000	00000000	00000000	✓
✓	0000	* * *	* * *	✓

Number of years of

Positions on a chess board are identified by a letter and a number. The letter identifies the column, and the number identifies the row, as shown below.



Write a program that reads a position from the user and uses an if statement to determine if the column designates a black square or a white square. Then use nested arithmetic to figure the color of the square in that row. For example, if the user enters *d*, then your program should report that the square is black. If the user enters *d1*, then your program should report that the square is white. Your program may assume that a valid position will always be entered. It does not need to perform any error checking.

Sample Input 1

a7

Sample Output 1

The square is black.

Sample Input 2

d4

Sample Output 2

The square is white.

Answer (correctly explains 0/0%)

```
1 #include <iostream>
2
3 int main()
4 {
5     char col;
6     int row;
7     char pos[10];
8     while (true)
9     {
10         std::cout << "Enter a position: ";
11         if (col == '\n')
12             continue;
13         pos[0] = col;
14         pos[1] = '\0';
15         std::cin.get();
16         if (pos[0] == '\n')
17             continue;
18         pos[1] = pos[0];
19         pos[0] = '\0';
20         if (pos[1] == '\n')
21             continue;
22         pos[2] = pos[1];
23         pos[1] = '\0';
24         if (pos[2] == '\n')
25             continue;
26         pos[3] = pos[2];
27         pos[2] = '\0';
28         if (pos[3] == '\n')
29             continue;
30         pos[4] = pos[3];
31         pos[3] = '\0';
32         if (pos[4] == '\n')
33             continue;
34         pos[5] = pos[4];
35         pos[4] = '\0';
36         if (pos[5] == '\n')
37             continue;
38         pos[6] = pos[5];
39         pos[5] = '\0';
40         if (pos[6] == '\n')
41             continue;
42         pos[7] = pos[6];
43         pos[6] = '\0';
44         if (pos[7] == '\n')
45             continue;
46         pos[8] = pos[7];
47         pos[7] = '\0';
48         if (pos[8] == '\n')
49             continue;
50         pos[9] = pos[8];
51         pos[8] = '\0';
52         if (pos[9] == '\n')
53             continue;
54         pos[10] = pos[9];
55         pos[9] = '\0';
56         if (pos[10] == '\n')
57             continue;
58         pos[11] = pos[10];
59         pos[10] = '\0';
60         if (pos[11] == '\n')
61             continue;
62         pos[12] = pos[11];
63         pos[11] = '\0';
64         if (pos[12] == '\n')
65             continue;
66         pos[13] = pos[12];
67         pos[12] = '\0';
68         if (pos[13] == '\n')
69             continue;
70         pos[14] = pos[13];
71         pos[13] = '\0';
72         if (pos[14] == '\n')
73             continue;
74         pos[15] = pos[14];
75         pos[14] = '\0';
76         if (pos[15] == '\n')
77             continue;
78         pos[16] = pos[15];
79         pos[15] = '\0';
80         if (pos[16] == '\n')
81             continue;
82         pos[17] = pos[16];
83         pos[16] = '\0';
84         if (pos[17] == '\n')
85             continue;
86         pos[18] = pos[17];
87         pos[17] = '\0';
88         if (pos[18] == '\n')
89             continue;
90         pos[19] = pos[18];
91         pos[18] = '\0';
92         if (pos[19] == '\n')
93             continue;
94         pos[20] = pos[19];
95         pos[19] = '\0';
96         if (pos[20] == '\n')
97             continue;
98         pos[21] = pos[20];
99         pos[20] = '\0';
100        if (pos[21] == '\n')
101            continue;
102        pos[22] = pos[21];
103        pos[21] = '\0';
104        if (pos[22] == '\n')
105            continue;
106        pos[23] = pos[22];
107        pos[22] = '\0';
108        if (pos[23] == '\n')
109            continue;
110        pos[24] = pos[23];
111        pos[23] = '\0';
112        if (pos[24] == '\n')
113            continue;
114        pos[25] = pos[24];
115        pos[24] = '\0';
116        if (pos[25] == '\n')
117            continue;
118        pos[26] = pos[25];
119        pos[25] = '\0';
120        if (pos[26] == '\n')
121            continue;
122        pos[27] = pos[26];
123        pos[26] = '\0';
124        if (pos[27] == '\n')
125            continue;
126        pos[28] = pos[27];
127        pos[27] = '\0';
128        if (pos[28] == '\n')
129            continue;
130        pos[29] = pos[28];
131        pos[28] = '\0';
132        if (pos[29] == '\n')
133            continue;
134        pos[30] = pos[29];
135        pos[29] = '\0';
136        if (pos[30] == '\n')
137            continue;
138        pos[31] = pos[30];
139        pos[30] = '\0';
140        if (pos[31] == '\n')
141            continue;
142        pos[32] = pos[31];
143        pos[31] = '\0';
144        if (pos[32] == '\n')
145            continue;
146        pos[33] = pos[32];
147        pos[32] = '\0';
148        if (pos[33] == '\n')
149            continue;
150        pos[34] = pos[33];
151        pos[33] = '\0';
152        if (pos[34] == '\n')
153            continue;
154        pos[35] = pos[34];
155        pos[34] = '\0';
156        if (pos[35] == '\n')
157            continue;
158        pos[36] = pos[35];
159        pos[35] = '\0';
160        if (pos[36] == '\n')
161            continue;
162        pos[37] = pos[36];
163        pos[36] = '\0';
164        if (pos[37] == '\n')
165            continue;
166        pos[38] = pos[37];
167        pos[37] = '\0';
168        if (pos[38] == '\n')
169            continue;
170        pos[39] = pos[38];
171        pos[38] = '\0';
172        if (pos[39] == '\n')
173            continue;
174        pos[40] = pos[39];
175        pos[39] = '\0';
176        if (pos[40] == '\n')
177            continue;
178        pos[41] = pos[40];
179        pos[40] = '\0';
180        if (pos[41] == '\n')
181            continue;
182        pos[42] = pos[41];
183        pos[41] = '\0';
184        if (pos[42] == '\n')
185            continue;
186        pos[43] = pos[42];
187        pos[42] = '\0';
188        if (pos[43] == '\n')
189            continue;
190        pos[44] = pos[43];
191        pos[43] = '\0';
192        if (pos[44] == '\n')
193            continue;
194        pos[45] = pos[44];
195        pos[44] = '\0';
196        if (pos[45] == '\n')
197            continue;
198        pos[46] = pos[45];
199        pos[45] = '\0';
200        if (pos[46] == '\n')
201            continue;
202        pos[47] = pos[46];
203        pos[46] = '\0';
204        if (pos[47] == '\n')
205            continue;
206        pos[48] = pos[47];
207        pos[47] = '\0';
208        if (pos[48] == '\n')
209            continue;
210        pos[49] = pos[48];
211        pos[48] = '\0';
212        if (pos[49] == '\n')
213            continue;
214        pos[50] = pos[49];
215        pos[49] = '\0';
216        if (pos[50] == '\n')
217            continue;
218        pos[51] = pos[50];
219        pos[50] = '\0';
220        if (pos[51] == '\n')
221            continue;
222        pos[52] = pos[51];
223        pos[51] = '\0';
224        if (pos[52] == '\n')
225            continue;
226        pos[53] = pos[52];
227        pos[52] = '\0';
228        if (pos[53] == '\n')
229            continue;
230        pos[54] = pos[53];
231        pos[53] = '\0';
232        if (pos[54] == '\n')
233            continue;
234        pos[55] = pos[54];
235        pos[54] = '\0';
236        if (pos[55] == '\n')
237            continue;
238        pos[56] = pos[55];
239        pos[55] = '\0';
240        if (pos[56] == '\n')
241            continue;
242        pos[57] = pos[56];
243        pos[56] = '\0';
244        if (pos[57] == '\n')
245            continue;
246        pos[58] = pos[57];
247        pos[57] = '\0';
248        if (pos[58] == '\n')
249            continue;
250        pos[59] = pos[58];
251        pos[58] = '\0';
252        if (pos[59] == '\n')
253            continue;
254        pos[60] = pos[59];
255        pos[59] = '\0';
256        if (pos[60] == '\n')
257            continue;
258        pos[61] = pos[60];
259        pos[60] = '\0';
260        if (pos[61] == '\n')
261            continue;
262        pos[62] = pos[61];
263        pos[61] = '\0';
264        if (pos[62] == '\n')
265            continue;
266        pos[63] = pos[62];
267        pos[62] = '\0';
268        if (pos[63] == '\n')
269            continue;
270        pos[64] = pos[63];
271        pos[63] = '\0';
272        if (pos[64] == '\n')
273            continue;
274        pos[65] = pos[64];
275        pos[64] = '\0';
276        if (pos[65] == '\n')
277            continue;
278        pos[66] = pos[65];
279        pos[65] = '\0';
280        if (pos[66] == '\n')
281            continue;
282        pos[67] = pos[66];
283        pos[66] = '\0';
284        if (pos[67] == '\n')
285            continue;
286        pos[68] = pos[67];
287        pos[67] = '\0';
288        if (pos[68] == '\n')
289            continue;
290        pos[69] = pos[68];
291        pos[68] = '\0';
292        if (pos[69] == '\n')
293            continue;
294        pos[70] = pos[69];
295        pos[69] = '\0';
296        if (pos[70] == '\n')
297            continue;
298        pos[71] = pos[70];
299        pos[70] = '\0';
300        if (pos[71] == '\n')
301            continue;
302        pos[72] = pos[71];
303        pos[71] = '\0';
304        if (pos[72] == '\n')
305            continue;
306        pos[73] = pos[72];
307        pos[72] = '\0';
308        if (pos[73] == '\n')
309            continue;
310        pos[74] = pos[73];
311        pos[73] = '\0';
312        if (pos[74] == '\n')
313            continue;
314        pos[75] = pos[74];
315        pos[74] = '\0';
316        if (pos[75] == '\n')
317            continue;
318        pos[76] = pos[75];
319        pos[75] = '\0';
320        if (pos[76] == '\n')
321            continue;
322        pos[77] = pos[76];
323        pos[76] = '\0';
324        if (pos[77] == '\n')
325            continue;
326        pos[78] = pos[77];
327        pos[77] = '\0';
328        if (pos[78] == '\n')
329            continue;
330        pos[79] = pos[78];
331        pos[78] = '\0';
332        if (pos[79] == '\n')
333            continue;
334        pos[80] = pos[79];
335        pos[79] = '\0';
336        if (pos[80] == '\n')
337            continue;
338        pos[81] = pos[80];
339        pos[80] = '\0';
340        if (pos[81] == '\n')
341            continue;
342        pos[82] = pos[81];
343        pos[81] = '\0';
344        if (pos[82] == '\n')
345            continue;
346        pos[83] = pos[82];
347        pos[82] = '\0';
348        if (pos[83] == '\n')
349            continue;
350        pos[84] = pos[83];
351        pos[83] = '\0';
352        if (pos[84] == '\n')
353            continue;
354        pos[85] = pos[84];
355        pos[84] = '\0';
356        if (pos[85] == '\n')
357            continue;
358        pos[86] = pos[85];
359        pos[85] = '\0';
360        if (pos[86] == '\n')
361            continue;
362        pos[87] = pos[86];
363        pos[86] = '\0';
364        if (pos[87] == '\n')
365            continue;
366        pos[88] = pos[87];
367        pos[87] = '\0';
368        if (pos[88] == '\n')
369            continue;
370        pos[89] = pos[88];
371        pos[88] = '\0';
372        if (pos[89] == '\n')
373            continue;
374        pos[90] = pos[89];
375        pos[89] = '\0';
376        if (pos[90] == '\n')
377            continue;
378        pos[91] = pos[90];
379        pos[90] = '\0';
380        if (pos[91] == '\n')
381            continue;
382        pos[92] = pos[91];
383        pos[91] = '\0';
384        if (pos[92] == '\n')
385            continue;
386        pos[93] = pos[92];
387        pos[92] = '\0';
388        if (pos[93] == '\n')
389            continue;
390        pos[94] = pos[93];
391        pos[93] = '\0';
392        if (pos[94] == '\n')
393            continue;
394        pos[95] = pos[94];
395        pos[94] = '\0';
396        if (pos[95] == '\n')
397            continue;
398        pos[96] = pos[95];
399        pos[95] = '\0';
400        if (pos[96] == '\n')
401            continue;
402        pos[97] = pos[96];
403        pos[96] = '\0';
404        if (pos[97] == '\n')
405            continue;
406        pos[98] = pos[97];
407        pos[97] = '\0';
408        if (pos[98] == '\n')
409            continue;
410        pos[99] = pos[98];
411        pos[98] = '\0';
412        if (pos[99] == '\n')
413            continue;
414        pos[100] = pos[99];
415        pos[99] = '\0';
416        if (pos[100] == '\n')
417            continue;
418        pos[101] = pos[100];
419        pos[100] = '\0';
420        if (pos[101] == '\n')
421            continue;
422        pos[102] = pos[101];
423        pos[101] = '\0';
424        if (pos[102] == '\n')
425            continue;
426        pos[103] = pos[102];
427        pos[102] = '\0';
428        if (pos[103] == '\n')
429            continue;
430        pos[104] = pos[103];
431        pos[103] = '\0';
432        if (pos[104] == '\n')
433            continue;
434        pos[105] = pos[104];
435        pos[104] = '\0';
436        if (pos[105] == '\n')
437            continue;
438        pos[106] = pos[105];
439        pos[105] = '\0';
440        if (pos[106] == '\n')
441            continue;
442        pos[107] = pos[106];
443        pos[106] = '\0';
444        if (pos[107] == '\n')
445            continue;
446        pos[108] = pos[107];
447        pos[107] = '\0';
448        if (pos[108] == '\n')
449            continue;
450        pos[109] = pos[108];
451        pos[108] = '\0';
452        if (pos[109] == '\n')
453            continue;
454        pos[110] = pos[109];
455        pos[109] = '\0';
456        if (pos[110] == '\n')
457            continue;
458        pos[111] = pos[110];
459        pos[110] = '\0';
460        if (pos[111] == '\n')
461            continue;
462        pos[112] = pos[111];
463        pos[111] = '\0';
464        if (pos[112] == '\n')
465            continue;
466        pos[113] = pos[112];
467        pos[112] = '\0';
468        if (pos[113] == '\n')
469            continue;
470        pos[114] = pos[113];
471        pos[113] = '\0';
472        if (pos[114] == '\n')
473            continue;
474        pos[115] = pos[114];
475        pos[114] = '\0';
476        if (pos[115] == '\n')
477            continue;
478        pos[116] = pos[115];
479        pos[115] = '\0';
480        if (pos[116] == '\n')
481            continue;
482        pos[117] = pos[116];
483        pos[116] = '\0';
484        if (pos[117] == '\n')
485            continue;
486        pos[118] = pos[117];
487        pos[117] = '\0';
488        if (pos[118] == '\n')
489            continue;
490        pos[119] = pos[118];
491        pos[118] = '\0';
492        if (pos[119] == '\n')
493            continue;
494        pos[120] = pos[119];
495        pos[119] = '\0';
496        if (pos[120] == '\n')
497            continue;
498        pos[121] = pos[120];
499        pos[120] = '\0';
500        if (pos[121] == '\n')
501            continue;
502        pos[122] = pos[121];
503        pos[121] = '\0';
504        if (pos[122] == '\n')
505            continue;
506        pos[123] = pos[122];
507        pos[122] = '\0';
508        if (pos[123] == '\n')
509            continue;
509        pos[124] = pos[123];
510        pos[123] = '\0';
511        if (pos[124] == '\n')
512            continue;
513        pos[125] = pos[124];
514        pos[124] = '\0';
515        if (pos[125] == '\n')
516            continue;
517        pos[126] = pos[125];
518        pos[125] = '\0';
519        if (pos[126] == '\n')
520            continue;
521        pos[127] = pos[126];
522        pos[126] = '\0';
523        if (pos[127] == '\n')
524            continue;
525        pos[128] = pos[127];
526        pos[127] = '\0';
527        if (pos[128] == '\n')
528            continue;
529        pos[129] = pos[128];
530        pos[128] = '\0';
531        if (pos[129] == '\n')
532            continue;
533        pos[130] = pos[129];
534        pos[129] = '\0';
535        if (pos[130] == '\n')
536            continue;
537        pos[131] = pos[130];
538        pos[130] = '\0';
539        if (pos[131] == '\n')
540            continue;
541        pos[132] = pos[131];
542        pos[131] = '\0';
543        if (pos[132] == '\n')
544            continue;
545        pos[133] = pos[132];
546        pos[132] = '\0';
547        if (pos[133] == '\n')
548            continue;
549        pos[134] = pos[133];
550        pos[133] = '\0';
551        if (pos[134] == '\n')
552            continue;
553        pos[135] = pos[134];
554        pos[134] = '\0';
555        if (pos[135] == '\n')
556            continue;
557        pos[136] = pos[135];
558        pos[135] = '\0';
559        if (pos[136] == '\n')
560            continue;
561        pos[137] = pos[136];
562        pos[136] = '\0';
563        if (pos[137] == '\n')
564            continue;
565        pos[138] = pos[137];
566        pos[137] = '\0';
567        if (pos[138] == '\n')
568            continue;
569        pos[139] = pos[138];
570        pos[138] = '\0';
571        if (pos[139] == '\n')
572            continue;
573        pos[140] = pos[139];
574        pos[139] = '\0';
575        if (pos[140] == '\n')
576            continue;
577        pos[141] = pos[140];
578        pos[140] = '\0';
579        if (pos[141] == '\n')
580            continue;
581        pos[142] = pos[141];
582        pos[141] = '\0';
583        if (pos[142] == '\n')
584            continue;
585        pos[143] = pos[142];
586        pos[142] = '\0';
587        if (pos[143] == '\n')
588            continue;
589        pos[144] = pos[143];
590        pos[143] = '\0';
591        if (pos[144] == '\n')
592            continue;
593        pos[145] = pos[144];
594        pos[144] = '\0';
595        if (pos[145] == '\n')
596            continue;
597        pos[146] = pos[145];
598        pos[145] = '\0';
599        if (pos[146] == '\n')
600            continue;
601        pos[147] = pos[146];
602        pos[146] = '\0';
603        if (pos[147] == '\n')
604            continue;
605        pos[148] = pos[147];
606        pos[147] = '\0';
607        if (pos[148] == '\n')
608            continue;
609        pos[149] = pos[148];
610        pos[148] = '\0';
611        if (pos[149] == '\n')
612            continue;
613        pos[150] = pos[149];
614        pos[149] = '\0';
615        if (pos[150] == '\n')
616            continue;
617        pos[151] = pos[150];
618        pos[150] = '\0';
619        if (pos[151] == '\n')
620            continue;
621        pos[152] = pos[151];
622        pos[151] = '\0';
623        if (pos[152] == '\n')
624            continue;
625        pos[153] = pos[152];
626        pos[152] = '\0';
627        if (pos[153] == '\n')
628            continue;
629        pos[154] = pos[153];
630        pos[153] = '\0';
631        if (pos[154] == '\n')
632            continue;
633        pos[155] = pos[154];
634        pos[154] = '\0';
635        if (pos[155] == '\n')
636            continue;
637        pos[156] = pos[155];
638        pos[155] = '\0';
639        if (pos[156] == '\n')
640            continue;
641        pos[157] = pos[156];
642        pos[156] = '\0';
643        if (pos[157] == '\n')
644            continue;
645        pos[158] = pos[157];
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648            continue;
649        pos[159] = pos[158];
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652            continue;
653        pos[160] = pos[159];
654        pos[159] = '\0';
655        if (pos[160] == '\n')
656            continue;
657        pos[161] = pos[160];
658        pos[160] = '\0';
659        if (pos[161] == '\n')
660            continue;
661        pos[162] = pos[161];
662        pos[161] = '\0';
663        if (pos[162] == '\n')
664            continue;
665        pos[163] = pos[162];
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667        if (pos[163] == '\n')
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669        pos[164] = pos[163];
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671        if (pos[164] == '\n')
672            continue;
673        pos[165] = pos[164];
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675        if (pos[165] == '\n')
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677        pos[166] = pos[165];
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679        if (pos[166] == '\n')
680            continue;
681        pos[167] = pos[166];
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683        if (pos[167] == '\n')
684            continue;
685        pos[168] = pos[167];
686        pos[167] = '\0';
687        if (pos[168] == '\n')
688            continue;
689        pos[169] = pos[168];
690        pos[168] = '\0';
691        if (pos[169] == '\n')
692            continue;
693        pos[170] = pos[169];
694        pos[169] = '\0';
695        if (pos[170] == '\n')
696            continue;
697        pos[171] = pos[170];
698        pos[170] = '\0';
699        if (pos[171] == '\n')
700            continue;
701        pos[172] = pos[171];
702        pos[171] = '\0';
703        if (pos[172] == '\n')
704            continue;
705        pos[173] = pos[172];
706        pos[172] = '\0';
707        if (pos[173] == '\n')
708            continue;
709        pos[174] = pos[173];
710        pos[173] = '\0';
711        if (pos[174] == '\n')
712            continue;
713        pos[175] = pos[174];
714        pos[174] = '\0';
715        if (pos[175] == '\n')
716            continue;
717        pos[176] = pos[175];
718        pos[175] = '\0';
719        if (pos[176] == '\n')
720            continue;
721        pos[177] = pos[176];
722        pos[176] = '\0';
723        if (pos[177] == '\n')
724            continue;
725        pos[178] = pos[177];
726        pos[177] = '\0';
727        if (pos[178] == '\n')
728            continue;
729        pos[179] = pos[178];
730        pos[178] = '\0';
731        if (pos[179] == '\n')
732            continue;
733        pos[180] = pos[179];
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735        if (pos[180] == '\n')
736            continue;
737        pos[181] = pos[180];
738        pos[180] = '\0';
739        if (pos[181] == '\n')
740            continue;
741        pos[182] = pos[181];
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743        if (pos[182] == '\n')
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745        pos[183] = pos[182];
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747        if (pos[183] == '\n')
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749        pos[184] = pos[183];
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751        if (pos[184] == '\n')
752            continue;
753        pos[185] = pos[184];
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755        if (pos[185] == '\n')
756            continue;
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760            continue;
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763        if (pos[187] == '\n')
764            continue;
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773        pos[190] = pos[189];
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776            continue;
777        pos[191] = pos[190];
778        pos[190] = '\0';
779        if (pos[191] == '\n')
780            continue;
781        pos[192] = pos[191];
782        pos[191] = '\0';
783        if (pos[192] == '\n')
784            continue;
785        pos[193] = pos[192];
786        pos[192] = '\0';
787        if (pos[193] == '\n')
788            continue;
789        pos[194] = pos[193];
790        pos[193] = '\0';
791        if (pos[194] == '\n')
792            continue;
793        pos[195] = pos[194];
794        pos[194] = '\0';
795        if (pos[195] == '\n')
796            continue;
797        pos[196] = pos[195];
798        pos[195] = '\0';
799        if (pos[196] == '\n')
800            continue;
801        pos[197] = pos[196];
802        pos[196] = '\0';
803        if (pos[197] == '\n')
804            continue;
805        pos[198] = pos[197];
806        pos[197] = '\0';
807        if (pos[198] == '\n')
808            continue;
809        pos[199] = pos[198];
810        pos[198] = '\0';
811        if (pos[199] == '\n')
812            continue;
813        pos[200] = pos[199];
814        pos[199] = '\0';
815        if (pos[200] == '\n')
816            continue;
817        pos[201] = pos[200];
818        pos[200] = '\0';
819        if (pos[201] == '\n')
820            continue;
821        pos[202] = pos[201];
822        pos[201] = '\0';
823        if (pos[202] == '\n')
824            continue;
825        pos[203] = pos[202];
826        pos[202] = '\0';
827        if (pos[203] == '\n')
828            continue;
829        pos[204] = pos[203];
830        pos[203] = '\0';
831        if (pos[204] == '\n')
832            continue;
833        pos[205] = pos[204];
834        pos[204] = '\0';
835        if (pos[205] == '\n')
836            continue;
837        pos[206] = pos[205];
838        pos[205] = '\0';
839        if (pos[206] == '\n')
840            continue;
841        pos[207] = pos[206];
842        pos[206] = '\0';
843        if (pos[207] == '\n')
844            continue;
845        pos[208] = pos[207];
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847        if (pos[208] == '\n')
848            continue;
849        pos[209] = pos[208];
850        pos[208] = '\0';
851        if (pos[209] == '\n')
852            continue;
853        pos[210] = pos[209];
854        pos[209] = '\0';
855        if (pos[210] == '\n')
856            continue;
857        pos[211] = pos[210];
858        pos[210] = '\0';
859        if (pos[211] == '\n')
860            continue;
861        pos[212] = pos[211];
862        pos[211] = '\0';
863        if (pos[212] == '\n')
864            continue;
865        pos[213] = pos[212];
866        pos[212] = '\0';
867        if (pos[213] == '\n')
868            continue
```

Some data sets specify dates using the year and day of year rather than the year, month, and day of month. The day of year (DOY) is the sequential day number starting with day 1 on January 1st.

There are two calendars - one for normal years with 365 days, and one for leap years with 366 days. Leap years are divisible by 4. Centuries, like 1900, are not leap years unless they are divisible by 400. So, 2000 was a leap year.

To find the day of year number for a standard date, scan down the Jan column to find the day of month, then scan across to the appropriate month column and read the day of year number. Reverse the process to find the standard date for a given day of year.

Write a program to print the Day of Year of a given date, month and year.

Sample Input 1

18
6
2020

Sample Output 1

170

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int day,month,year,i,day_of_year=0;
5     int day_in_month[12]={31,28,31,30,31,30,31,31,30,31,30,31};
6     scanf("%d%d%d",&day,&month,&year);
7     if((year%4==0 && year%100!=0)||year%400==0)
8     {
9         day_in_month[1]=29;
10    }
11    for(i=0;i<month-1;i++)
12    {
13        day_of_year+=day_in_month[i];
14    }
15    day_of_year+=day;
16    printf("%d",day_of_year);
17    return 0;
18 }
```

	Input	Expected	Got	
✓	18 6 2020	170	170	✓

Passed all tests! ✓

Activate Windows

Sample Output 1

0

Sample Input

C

9

10

Sample Output 2

0

Explanation

- Sum is output of area of rectangle
- Then, output of area of triangle
- Then output of area square
- Finally, something random, so we print 0

Answer: (probably wrong! 0 %)

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int x1,x2,x3,x4,y1,y2;
6     char shape;
7     cin>>shape;
8     switch(shape)
9     {
10         case 'R':
11             cin>>x1,x2,y1,y2;
12             break;
13         case 'T':
14             cin>>x1,x2,y1,y2;
15             break;
16         case 'S':
17             cin>>x1,x2,y1,y2;
18             break;
19         default:
20             break;
21     }
22     cout<<endl;
23     return 0;
24 }
```

	Input	Expected	Got	
✓	1 10 10	100	100	✓
✓	2 10 10	100	100	✓
✓	3 10 10	100	100	✓
✓	4 10 10	100	100	✓
✓	5 1000 1000	1000000	1000000	✓

Activate Windows
Go to Settings to activate Windows.

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100

Suppose you're given a journey by the below planet. It is only important for her to know whether for every day they don't follow the 7 day week. Instead they follow a 20 day week with the following days: Day Number Name of Day 1 Sunday 2 Monday 3 Tuesday 4 Wednesday 5 Thursday 6 Friday 7 Saturday 8 Day Sunday 9 Monday 10 Tuesday 11 Wednesday 12 Thursday 13 Friday 14 Saturday 15 Sunday 16 Monday 17 Tuesday 18 Wednesday 19 Thursday 20 Friday 21 Saturday 22 Sunday 23 Monday 24 Tuesday 25 Wednesday 26 Thursday 27 Friday 28 Saturday 29 Sunday 30 Monday 31 Tuesday 32 Wednesday 33 Thursday 34 Friday 35 Saturday 36 Sunday 37 Monday 38 Tuesday 39 Wednesday 40 Thursday 41 Friday 42 Saturday 43 Sunday 44 Monday 45 Tuesday 46 Wednesday 47 Thursday 48 Friday 49 Saturday 50 Sunday 51 Monday 52 Tuesday 53 Wednesday 54 Thursday 55 Friday 56 Saturday 57 Sunday 58 Monday 59 Tuesday 60 Wednesday 61 Thursday 62 Friday 63 Saturday 64 Sunday 65 Monday 66 Tuesday 67 Wednesday 68 Thursday 69 Friday 70 Saturday 71 Sunday 72 Monday 73 Tuesday 74 Wednesday 75 Thursday 76 Friday 77 Saturday 78 Sunday 79 Monday 80 Tuesday 81 Wednesday 82 Thursday 83 Friday 84 Saturday 85 Sunday 86 Monday 87 Tuesday 88 Wednesday 89 Thursday 90 Friday 91 Saturday 92 Sunday 93 Monday 94 Tuesday 95 Wednesday 96 Thursday 97 Friday 98 Saturday 99 Sunday 100 Monday 101 Tuesday 102 Wednesday 103 Thursday 104 Friday 105 Saturday 106 Sunday 107 Monday 108 Tuesday 109 Wednesday 110 Thursday 111 Friday 112 Saturday 113 Sunday 114 Monday 115 Tuesday 116 Wednesday 117 Thursday 118 Friday 119 Saturday 120 Sunday 121 Monday 122 Tuesday 123 Wednesday 124 Thursday 125 Friday 126 Saturday 127 Sunday 128 Monday 129 Tuesday 130 Wednesday 131 Thursday 132 Friday 133 Saturday 134 Sunday 135 Monday 136 Tuesday 137 Wednesday 138 Thursday 139 Friday 140 Saturday 141 Sunday 142 Monday 143 Tuesday 144 Wednesday 145 Thursday 146 Friday 147 Saturday 148 Sunday 149 Monday 150 Tuesday 151 Wednesday 152 Thursday 153 Friday 154 Saturday 155 Sunday 156 Monday 157 Tuesday 158 Wednesday 159 Thursday 160 Friday 161 Saturday 162 Sunday 163 Monday 164 Tuesday 165 Wednesday 166 Thursday 167 Friday 168 Saturday 169 Sunday 170 Monday 171 Tuesday 172 Wednesday 173 Thursday 174 Friday 175 Saturday 176 Sunday 177 Monday 178 Tuesday 179 Wednesday 180 Thursday 181 Friday 182 Saturday 183 Sunday 184 Monday 185 Tuesday 186 Wednesday 187 Thursday 188 Friday 189 Saturday 190 Sunday 191 Monday 192 Tuesday 193 Wednesday 194 Thursday 195 Friday 196 Saturday 197 Sunday 198 Monday 199 Tuesday 200 Wednesday 201 Thursday 202 Friday 203 Saturday 204 Sunday 205 Monday 206 Tuesday 207 Wednesday 208 Thursday 209 Friday 210 Saturday 211 Sunday 212 Monday 213 Tuesday 214 Wednesday 215 Thursday 216 Friday 217 Saturday 218 Sunday 219 Monday 220 Tuesday 221 Wednesday 222 Thursday 223 Friday 224 Saturday 225 Sunday 226 Monday 227 Tuesday 228 Wednesday 229 Thursday 230 Friday 231 Saturday 232 Sunday 233 Monday 234 Tuesday 235 Wednesday 236 Thursday 237 Friday 238 Saturday 239 Sunday 240 Monday 241 Tuesday 242 Wednesday 243 Thursday 244 Friday 245 Saturday 246 Sunday 247 Monday 248 Tuesday 249 Wednesday 250 Thursday 251 Friday 252 Saturday 253 Sunday 254 Monday 255 Tuesday 256 Wednesday 257 Thursday 258 Friday 259 Saturday 260 Sunday 261 Monday 262 Tuesday 263 Wednesday 264 Thursday 265 Friday 266 Saturday 267 Sunday 268 Monday 269 Tuesday 270 Wednesday 271 Thursday 272 Friday 273 Saturday 274 Sunday 275 Monday 276 Tuesday 277 Wednesday 278 Thursday 279 Friday 280 Saturday 281 Sunday 282 Monday 283 Tuesday 284 Wednesday 285 Thursday 286 Friday 287 Saturday 288 Sunday 289 Monday 290 Tuesday 291 Wednesday 292 Thursday 293 Friday 294 Saturday 295 Sunday 296 Monday 297 Tuesday 298 Wednesday 299 Thursday 300 Friday 301 Saturday 302 Sunday 303 Monday 304 Tuesday 305 Wednesday 306 Thursday 307 Friday 308 Saturday 309 Sunday 310 Monday 311 Tuesday 312 Wednesday 313 Thursday 314 Friday 315 Saturday 316 Sunday 317 Monday 318 Tuesday 319 Wednesday 320 Thursday 321 Friday 322 Saturday 323 Sunday 324 Monday 325 Tuesday 326 Wednesday 327 Thursday 328 Friday 329 Saturday 330 Sunday 331 Monday 332 Tuesday 333 Wednesday 334 Thursday 335 Friday 336 Saturday 337 Sunday 338 Monday 339 Tuesday 340 Wednesday 341 Thursday 342 Friday 343 Saturday 344 Sunday 345 Monday 346 Tuesday 347 Wednesday 348 Thursday 349 Friday 350 Saturday 351 Sunday 352 Monday 353 Tuesday 354 Wednesday 355 Thursday 356 Friday 357 Saturday 358 Sunday 359 Monday 360 Tuesday 361 Wednesday 362 Thursday 363 Friday 364 Saturday 365 Sunday 366 Monday 367 Tuesday 368 Wednesday 369 Thursday 370 Friday 371 Saturday 372 Sunday 373 Monday 374 Tuesday 375 Wednesday 376 Thursday 377 Friday 378 Saturday 379 Sunday 380 Monday 381 Tuesday 382 Wednesday 383 Thursday 384 Friday 385 Saturday 386 Sunday 387 Monday 388 Tuesday 389 Wednesday 390 Thursday 391 Friday 392 Saturday 393 Sunday 394 Monday 395 Tuesday 396 Wednesday 397 Thursday 398 Friday 399 Saturday 400 Sunday 401 Monday 402 Tuesday 403 Wednesday 404 Thursday 405 Friday 406 Saturday 407 Sunday 408 Monday 409 Tuesday 410 Wednesday 411 Thursday 412 Friday 413 Saturday 414 Sunday 415 Monday 416 Tuesday 417 Wednesday 418 Thursday 419 Friday 420 Saturday 421 Sunday 422 Monday 423 Tuesday 424 Wednesday 425 Thursday 426 Friday 427 Saturday 428 Sunday 429 Monday 430 Tuesday 431 Wednesday 432 Thursday 433 Friday 434 Saturday 435 Sunday 436 Monday 437 Tuesday 438 Wednesday 439 Thursday 440 Friday 441 Saturday 442 Sunday 443 Monday 444 Tuesday 445 Wednesday 446 Thursday 447 Friday 448 Saturday 449 Sunday 450 Monday 451 Tuesday 452 Wednesday 453 Thursday 454 Friday 455 Saturday 456 Sunday 457 Monday 458 Tuesday 459 Wednesday 460 Thursday 461 Friday 462 Saturday 463 Sunday 464 Monday 465 Tuesday 466 Wednesday 467 Thursday 468 Friday 469 Saturday 470 Sunday 471 Monday 472 Tuesday 473 Wednesday 474 Thursday 475 Friday 476 Saturday 477 Sunday 478 Monday 479 Tuesday 480 Wednesday 481 Thursday 482 Friday 483 Saturday 484 Sunday 485 Monday 486 Tuesday 487 Wednesday 488 Thursday 489 Friday 490 Saturday 491 Sunday 492 Monday 493 Tuesday 494 Wednesday 495 Thursday 496 Friday 497 Saturday 498 Sunday 499 Monday 500 Tuesday 501 Wednesday 502 Thursday 503 Friday 504 Saturday 505 Sunday 506 Monday 507 Tuesday 508 Wednesday 509 Thursday 510 Friday 511 Saturday 512 Sunday 513 Monday 514 Tuesday 515 Wednesday 516 Thursday 517 Friday 518 Saturday 519 Sunday 520 Monday 521 Tuesday 522 Wednesday 523 Thursday 524 Friday 525 Saturday 526 Sunday 527 Monday 528 Tuesday 529 Wednesday 530 Thursday 531 Friday 532 Saturday 533 Sunday 534 Monday 535 Tuesday 536 Wednesday 537 Thursday 538 Friday 539 Saturday 540 Sunday 541 Monday 542 Tuesday 543 Wednesday 544 Thursday 545 Friday 546 Saturday 547 Sunday 548 Monday 549 Tuesday 550 Wednesday 551 Thursday 552 Friday 553 Saturday 554 Sunday 555 Monday 556 Tuesday 557 Wednesday 558 Thursday 559 Friday 560 Saturday 561 Sunday 562 Monday 563 Tuesday 564 Wednesday 565 Thursday 566 Friday 567 Saturday 568 Sunday 569 Monday 570 Tuesday 571 Wednesday 572 Thursday 573 Friday 574 Saturday 575 Sunday 576 Monday 577 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