

Programming using C

week05 practice session and coding

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Question 1

Correct

Model cost of 0.00

Flag question

Write a program that prints a single chessboard.

Input format:

The first line contains the number of input T.
The lines after that contain a different value for size of the chessboard

Output format:

Print a chessboard of dimension size * size. Print a 'W' for white space and 'B' for black space.

Input:

2
1
5

Output:

WBWB
WBWB
WBWB
WBWB
WBWB
WBWB
WBWB
WBWB

Answer: penalty region: 0.00

```
1 // chessboard.cpp
2 #include<iostream>
3 using namespace std;
4 int t,n;
5 void print(int n)
6 {
7     for(int i=0;i<n;i++)
8     {
9         for(int j=0;j<n;j++)
10         {
11             if((i+j)%2==0)
12             {
13                 cout<<"W";
14             }
15             else
16             {
17                 cout<<"B";
18             }
19             if(j<n-1)
20                 cout<<" ";
21         }
22         cout<<"\n";
23     }
24 }
```

	Input	Expected	Got	
✓	2	WBWB	WBWB	✓
	1	B	B	
	5	WBWBWBWB	WBWBWBWB	
		WBWBWBWB	WBWBWBWB	
		WBWBWBWB	WBWBWBWB	
		WBWBWBWB	WBWBWBWB	
		WBWBWBWB	WBWBWBWB	

Passed all tests ✓

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Let's print a chessboard!

Write a program that takes input:

The first line contains T , the number of test cases.

Each test case contains an integer N and also the starting character of the chessboard.

Output Format

Print the chessboard as per the given examples.

Sample Input / Output

Input

```
2
2 W
3 B
```

Output

```
WB
WB
WB
WB
WB
```

Answer: (possibly wrong 0%)

```
1 //Chessboard.cpp
2 int main()
3 {
4     int T;
5     scanf("%d",&T);
6     for(int i=0;i<T;i++)
7     {
8         int N;
9         char start;
10        scanf("%d %c",&N,&start);
11        char alt = (start=='W')?'B':'W';
12        for(int i=0;i<N;i++)
13        {
14            for(int j=0;j<N;j++)
15            {
16                if((i+j)%2==0)
17                {
18                    printf("%c",start);
19                }
20                else
21                {
22                    printf("%c",alt);
23                }
24            }
25            printf("\n");
26        }
27        return 0;
28    }
```

	Input	Expected	Got	
✓	2	ab	ab	✓
	2 8	ba	ba	
	1 8	ba	ba	
		aba	aba	
		ba	ba	

Passed all tests ✓

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Question 3
 100%
 Marked out of
 1.00
 Flag
 question

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

N: 3

then pattern will be :

```

0003000010012
**0050009
***007
  
```

N: 4, then pattern will be

```

000300017010010020
**0007010015016
***000012013
****0011
  
```

Constraints:

2 <= N <= 100

Input Format

First line contains T, the number of test cases.
Each test case contains a single integer N.

Output

First line print Case #i where i is the test case number.
In the subsequent line, print the pattern

Test Case 1

```

3
3
4
5
  
```

Output

```

Case #1
0003000010012
**0050009
***007

Case #2
000300017010010020
**0007010015016
***000012013
****0011

Case #3
000300050007000020030
**00000020021004005
***001001010020021
****00100100100
*****0010
  
```


This is digit number 10 is an Armstrong number if and only if the 3rd power of each digit sum is 10

Given a positive integer N, return true if and only if it is an Armstrong number.

Example 1:

Input:

10

Output:

false

Explanation:

10 is a 2 digit number, and $1^2 + 0^2 = 1 \neq 10$

Example 2:

Input:

153

Output:

true

Explanation:

153 is a 3 digit number, and $1^3 + 5^3 + 3^3 = 153$

Example 3:

Input:

1534

Output:

false

Explanation:

1534 is not an Armstrong number

Answer (currently empty):

```
1 // 1342. Number of Digit One
2 // Given a positive integer N, return true if and only if it is an Armstrong number.
3 // Example 1:
4 // Input: 10
5 // Output: false
6 // Explanation: 10 is a 2 digit number, and 1^2 + 0^2 = 1 != 10
7 // Example 2:
8 // Input: 153
9 // Output: true
10 // Explanation: 153 is a 3 digit number, and 1^3 + 5^3 + 3^3 = 153
11 // Example 3:
12 // Input: 1534
13 // Output: false
14 // Explanation: 1534 is not an Armstrong number
15
16 class Solution {
17 public:
18     bool isArmstrong(int N) {
19         // Convert N to a string to get its digits
20         string s = to_string(N);
21         int n = s.length();
22         int sum = 0;
23         for (char c : s) {
24             int digit = c - '0';
25             sum += pow(digit, n);
26         }
27         return sum == N;
28     }
29 };
30
31 // Test cases
32 int main() {
33     Solution sol;
34     cout << sol.isArmstrong(10) << endl; // false
35     cout << sol.isArmstrong(153) << endl; // true
36     cout << sol.isArmstrong(1534) << endl; // false
37     return 0;
38 }
```

Input	Expected	Got
10	false	false
153	true	true
1534	false	false

Passed all tests: 100%

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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
7     {
8         nt=n;
9         rn=0;
10        while(n!=0)
11        {
12            rn=rn*10 + n%10;
13            n/=10;
14        }
15        n=nt+rn;
16        i++;
17    }
18    while(rn!=nt || i==1);
19    {
20        printf("%d",rn);
21    }
22    return 0;
23 }
24 }
```

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

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1/1000 5
Points

Maximal test set
1/100

0 Play
number

A number is considered lucky if it consists either 2 or 4 or 3 and 4 both in it. Write a program to print the nth lucky number. Sample: 1st lucky number is 2, and 2nd lucky number is 4 and 3rd lucky number is 11 and 4th lucky number is 16 and so on. Note that 11, 44 etc., are not lucky as they have other numbers in it.

The program should accept a number 'N' as input and display the nth lucky number as output.

Sample Input 1:

3

Sample Output 1:

11

Explanation:

Here the lucky numbers are 2, 4, 11, 16, and the 3rd lucky number is 11.

Sample Input 2:

34

Sample Output 2:

11144

Answer: (possibly incorrect 0 %)

```
1 //C++code to find nth lucky number
2 int main()
3 {
4     int n=1,i=1,j=1,k=1,l=1,m=1;
5     while(i<1000000)
6     {
7         if(i%2==0)
8             j++;
9         if(i%4==0)
10            k++;
11         if(i%11==0)
12            l++;
13         if(i%16==0)
14            m++;
15         if(i%20==0)
16            n++;
17         if(i%25==0)
18            i++;
19         if(i%30==0)
20            i++;
21         if(i%35==0)
22            i++;
23         if(i%40==0)
24            i++;
25         if(i%45==0)
26            i++;
27         if(i%50==0)
28            i++;
29         if(i%55==0)
30            i++;
31         if(i%60==0)
32            i++;
33         if(i%65==0)
34            i++;
35         if(i%70==0)
36            i++;
37         if(i%75==0)
38            i++;
39         if(i%80==0)
40            i++;
41         if(i%85==0)
42            i++;
43         if(i%90==0)
44            i++;
45         if(i%95==0)
46            i++;
47         if(i%100==0)
48            i++;
49         if(i%105==0)
50            i++;
51         if(i%110==0)
52            i++;
53         if(i%115==0)
54            i++;
55         if(i%120==0)
56            i++;
57         if(i%125==0)
58            i++;
59         if(i%130==0)
60            i++;
61         if(i%135==0)
62            i++;
63         if(i%140==0)
64            i++;
65         if(i%145==0)
66            i++;
67         if(i%150==0)
68            i++;
69         if(i%155==0)
70            i++;
71         if(i%160==0)
72            i++;
73         if(i%165==0)
74            i++;
75         if(i%170==0)
76            i++;
77         if(i%175==0)
78            i++;
79         if(i%180==0)
80            i++;
81         if(i%185==0)
82            i++;
83         if(i%190==0)
84            i++;
85         if(i%195==0)
86            i++;
87         if(i%200==0)
88            i++;
89         if(i%205==0)
90            i++;
91         if(i%210==0)
92            i++;
93         if(i%215==0)
94            i++;
95         if(i%220==0)
96            i++;
97         if(i%225==0)
98            i++;
99         if(i%230==0)
100            i++;
101         if(i%235==0)
102            i++;
103         if(i%240==0)
104            i++;
105         if(i%245==0)
106            i++;
107         if(i%250==0)
108            i++;
109         if(i%255==0)
110            i++;
111         if(i%260==0)
112            i++;
113         if(i%265==0)
114            i++;
115         if(i%270==0)
116            i++;
117         if(i%275==0)
118            i++;
119         if(i%280==0)
120            i++;
121         if(i%285==0)
122            i++;
123         if(i%290==0)
124            i++;
125         if(i%295==0)
126            i++;
127         if(i%300==0)
128            i++;
129         if(i%305==0)
130            i++;
131         if(i%310==0)
132            i++;
133         if(i%315==0)
134            i++;
135         if(i%320==0)
136            i++;
137         if(i%325==0)
138            i++;
139         if(i%330==0)
140            i++;
141         if(i%335==0)
142            i++;
143         if(i%340==0)
144            i++;
145         if(i%345==0)
146            i++;
147         if(i%350==0)
148            i++;
149         if(i%355==0)
150            i++;
151         if(i%360==0)
152            i++;
153         if(i%365==0)
154            i++;
155         if(i%370==0)
156            i++;
157         if(i%375==0)
158            i++;
159         if(i%380==0)
160            i++;
161         if(i%385==0)
162            i++;
163         if(i%390==0)
164            i++;
165         if(i%395==0)
166            i++;
167         if(i%400==0)
168            i++;
169         if(i%405==0)
170            i++;
171         if(i%410==0)
172            i++;
173         if(i%415==0)
174            i++;
175         if(i%420==0)
176            i++;
177         if(i%425==0)
178            i++;
179         if(i%430==0)
180            i++;
181         if(i%435==0)
182            i++;
183         if(i%440==0)
184            i++;
185         if(i%445==0)
186            i++;
187         if(i%450==0)
188            i++;
189         if(i%455==0)
190            i++;
191         if(i%460==0)
192            i++;
193         if(i%465==0)
194            i++;
195         if(i%470==0)
196            i++;
197         if(i%475==0)
198            i++;
199         if(i%480==0)
200            i++;
201         if(i%485==0)
202            i++;
203         if(i%490==0)
204            i++;
205         if(i%495==0)
206            i++;
207         if(i%500==0)
208            i++;
209         if(i%505==0)
210            i++;
211         if(i%510==0)
212            i++;
213         if(i%515==0)
214            i++;
215         if(i%520==0)
216            i++;
217         if(i%525==0)
218            i++;
219         if(i%530==0)
220            i++;
221         if(i%535==0)
222            i++;
223         if(i%540==0)
224            i++;
225         if(i%545==0)
226            i++;
227         if(i%550==0)
228            i++;
229         if(i%555==0)
230            i++;
231         if(i%560==0)
232            i++;
233         if(i%565==0)
234            i++;
235         if(i%570==0)
236            i++;
237         if(i%575==0)
238            i++;
239         if(i%580==0)
240            i++;
241         if(i%585==0)
242            i++;
243         if(i%590==0)
244            i++;
245         if(i%595==0)
246            i++;
247         if(i%600==0)
248            i++;
249         if(i%605==0)
250            i++;
251         if(i%610==0)
252            i++;
253         if(i%615==0)
254            i++;
255         if(i%620==0)
256            i++;
257         if(i%625==0)
258            i++;
259         if(i%630==0)
260            i++;
261         if(i%635==0)
262            i++;
263         if(i%640==0)
264            i++;
265         if(i%645==0)
266            i++;
267         if(i%650==0)
268            i++;
269         if(i%655==0)
270            i++;
271         if(i%660==0)
272            i++;
273         if(i%665==0)
274            i++;
275         if(i%670==0)
276            i++;
277         if(i%675==0)
278            i++;
279         if(i%680==0)
280            i++;
281         if(i%685==0)
282            i++;
283         if(i%690==0)
284            i++;
285         if(i%695==0)
286            i++;
287         if(i%700==0)
288            i++;
289         if(i%705==0)
290            i++;
291         if(i%710==0)
292            i++;
293         if(i%715==0)
294            i++;
295         if(i%720==0)
296            i++;
297         if(i%725==0)
298            i++;
299         if(i%730==0)
300            i++;
301         if(i%735==0)
302            i++;
303         if(i%740==0)
304            i++;
305         if(i%745==0)
306            i++;
307         if(i%750==0)
308            i++;
309         if(i%755==0)
310            i++;
311         if(i%760==0)
312            i++;
313         if(i%765==0)
314            i++;
315         if(i%770==0)
316            i++;
317         if(i%775==0)
318            i++;
319         if(i%780==0)
320            i++;
321         if(i%785==0)
322            i++;
323         if(i%790==0)
324            i++;
325         if(i%795==0)
326            i++;
327         if(i%800==0)
328            i++;
329         if(i%805==0)
330            i++;
331         if(i%810==0)
332            i++;
333         if(i%815==0)
334            i++;
335         if(i%820==0)
336            i++;
337         if(i%825==0)
338            i++;
339         if(i%830==0)
340            i++;
341         if(i%835==0)
342            i++;
343         if(i%840==0)
344            i++;
345         if(i%845==0)
346            i++;
347         if(i%850==0)
348            i++;
349         if(i%855==0)
350            i++;
351         if(i%860==0)
352            i++;
353         if(i%865==0)
354            i++;
355         if(i%870==0)
356            i++;
357         if(i%875==0)
358            i++;
359         if(i%880==0)
360            i++;
361         if(i%885==0)
362            i++;
363         if(i%890==0)
364            i++;
365         if(i%895==0)
366            i++;
367         if(i%900==0)
368            i++;
369         if(i%905==0)
370            i++;
371         if(i%910==0)
372            i++;
373         if(i%915==0)
374            i++;
375         if(i%920==0)
376            i++;
377         if(i%925==0)
378            i++;
379         if(i%930==0)
380            i++;
381         if(i%935==0)
382            i++;
383         if(i%940==0)
384            i++;
385         if(i%945==0)
386            i++;
387         if(i%950==0)
388            i++;
389         if(i%955==0)
390            i++;
391         if(i%960==0)
392            i++;
393         if(i%965==0)
394            i++;
395         if(i%970==0)
396            i++;
397         if(i%975==0)
398            i++;
399         if(i%980==0)
400            i++;
401         if(i%985==0)
402            i++;
403         if(i%990==0)
404            i++;
405         if(i%995==0)
406            i++;
407         if(i%1000==0)
408            i++;
409         if(i%1005==0)
410            i++;
411         if(i%1010==0)
412            i++;
413         if(i%1015==0)
414            i++;
415         if(i%1020==0)
416            i++;
417         if(i%1025==0)
418            i++;
419         if(i%1030==0)
420            i++;
421         if(i%1035==0)
422            i++;
423         if(i%1040==0)
424            i++;
425         if(i%1045==0)
426            i++;
427         if(i%1050==0)
428            i++;
429         if(i%1055==0)
430            i++;
431         if(i%1060==0)
432            i++;
433         if(i%1065==0)
434            i++;
435         if(i%1070==0)
436            i++;
437         if(i%1075==0)
438            i++;
439         if(i%1080==0)
440            i++;
441         if(i%1085==0)
442            i++;
443         if(i%1090==0)
444            i++;
445         if(i%1095==0)
446            i++;
447         if(i%1100==0)
448            i++;
449         if(i%1105==0)
450            i++;
451         if(i%1110==0)
452            i++;
453         if(i%1115==0)
454            i++;
455         if(i%1120==0)
456            i++;
457         if(i%1125==0)
458            i++;
459         if(i%1130==0)
460            i++;
461         if(i%1135==0)
462            i++;
463         if(i%1140==0)
464            i++;
465         if(i%1145==0)
466            i++;
467         if(i%1150==0)
468            i++;
469         if(i%1155==0)
470            i++;
471         if(i%1160==0)
472            i++;
473         if(i%1165==0)
474            i++;
475         if(i%1170==0)
476            i++;
477         if(i%1175==0)
478            i++;
479         if(i%1180==0)
480            i++;
481         if(i%1185==0)
482            i++;
483         if(i%1190==0)
484            i++;
485         if(i%1195==0)
486            i++;
487         if(i%1200==0)
488            i++;
489         if(i%1205==0)
490            i++;
491         if(i%1210==0)
492            i++;
493         if(i%1215==0)
494            i++;
495         if(i%1220==0)
496            i++;
497         if(i%1225==0)
498            i++;
499         if(i%1230==0)
500            i++;
501         if(i%1235==0)
502            i++;
503         if(i%1240==0)
504            i++;
505         if(i%1245==0)
506            i++;
507         if(i%1250==0)
508            i++;
509         if(i%1255==0)
510            i++;
511         if(i%1260==0)
512            i++;
513         if(i%1265==0)
514            i++;
515         if(i%1270==0)
516            i++;
517         if(i%1275==0)
518            i++;
519         if(i%1280==0)
520            i++;
521         if(i%1285==0)
522            i++;
523         if(i%1290==0)
524            i++;
525         if(i%1295==0)
526            i++;
527         if(i%1300==0)
528            i++;
529         if(i%1305==0)
530            i++;
531         if(i%1310==0)
532            i++;
533         if(i%1315==0)
534            i++;
535         if(i%1320==0)
536            i++;
537         if(i%1325==0)
538            i++;
539         if(i%1330==0)
540            i++;
541         if(i%1335==0)
542            i++;
543         if(i%1340==0)
544            i++;
545         if(i%1345==0)
546            i++;
547         if(i%1350==0)
548            i++;
549         if(i%1355==0)
550            i++;
551         if(i%1360==0)
552            i++;
553         if(i%1365==0)
554            i++;
555         if(i%1370==0)
556            i++;
557         if(i%1375==0)
558            i++;
559         if(i%1380==0)
560            i++;
561         if(i%1385==0)
562            i++;
563         if(i%1390==0)
564            i++;
565         if(i%1395==0)
566            i++;
567         if(i%1400==0)
568            i++;
569         if(i%1405==0)
570            i++;
571         if(i%1410==0)
572            i++;
573         if(i%1415==0)
574            i++;
575         if(i%1420==0)
576            i++;
577         if(i%1425==0)
578            i++;
579         if(i%1430==0)
580            i++;
581         if(i%1435==0)
582            i++;
583         if(i%1440==0)
584            i++;
585         if(i%1445==0)
586            i++;
587         if(i%1450==0)
588            i++;
589         if(i%1455==0)
590            i++;
591         if(i%1460==0)
592            i++;
593         if(i%1465==0)
594            i++;
595         if(i%1470==0)
596            i++;
597         if(i%1475==0)
598            i++;
599         if(i%1480==0)
600            i++;
601         if(i%1485==0)
602            i++;
603         if(i%1490==0)
604            i++;
605         if(i%1495==0)
606            i++;
607         if(i%1500==0)
608            i++;
609         if(i%1505==0)
610            i++;
611         if(i%1510==0)
612            i++;
613         if(i%1515==0)
614            i++;
615         if(i%1520==0)
616            i++;
617         if(i%1525==0)
618            i++;
619         if(i%1530==0)
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