

Codeforces Problems:

Problem 3

Wonderful Number

<https://codeforces.com/group/MWSDmqGsZm/contest/223205/submission/312790409>

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PROBLEMS SUBMIT CODE MY SUBMISSIONS **STATUS** STANDINGS CUSTOM INVOCATION

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
312790409	Practice: alaaabdelhay22	223205C - 17	GNU C11	Accepted	77 ms	148 KB	2025-03-28 14:25:25	2025-03-28 14:25:25	★	Compare

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```
#include <stdio.h>
#include <stdbool.h>
#include <string.h>

bool is_odd(int n) {
    return n % 2 == 1;
}

bool is_binary_palindrome(int n) {
    char binary[32];
    int index = 0;

    while (n > 0) {
        binary[index++] = (n % 2) + '0';
        n /= 2;
    }
    binary[index] = '\0';

    for (int i = 0; i < index / 2; i++) {
        if (binary[i] != binary[index - i - 1])
            return false;
    }

    return true;
}

int main() {
    int N;
```

Problem 4

[Print from 1 to N](#)

https://codeforces.com/group/MWSDmqGsZm/contest/223339/submission/312791199

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#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
312791199	Practice: alaaabdelhay22	223339B - 14	GNU C11	Accepted	62 ms	88 KB	2025-03-28 14:31:21	2025-03-28 14:31:21	☆	Compare

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```
#include <stdio.h>

void printNumbers(int current, int N) {
    if (current > N)
        return;
    printf("%d\n", current);
    printNumbers(current + 1, N);
}

int main() {
    int N;
    scanf("%d", &N);
    printNumbers(1, N);
    return 0;
}
```

Judged Example Tests

1

Time: 0 ms, memory: 0 KB

Verdict: OK

Input

5

Participant's output

1

5

Problem 5

[Print Digits using Recursion](#)

[https://codeforces.com/group/MWSDmqGsZm/contest/223339/submission/312792124](#)🔍 ⚙️ 🌐 🌐 🌐 Upd

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#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
312792124	Practice: alaaabdelhay22	223339D - 15	GNU C11	Accepted	77 ms	92 KB	2025-03-28 14:38:27	2025-03-28 14:38:27	★	Compare

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```
#include <stdio.h>

void printDigits(int n) {
    if (n < 10) {
        printf("%d", n);
        return;
    }
    printDigits(n / 10);
    printf(" %d", n % 10);
}

int main() {
    int T, N;
    scanf("%d", &T);

    while (T--) {
        scanf("%d", &N);
        printDigits(N);
        printf("\n");
    }

    return 0;
}
```

Judged Example Tests

Problem 6

Fibonacci

https://codeforces.com/group/MWSDmqGsZm/contest/223339/submission/312792456

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#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
312792456	Practice: alaaabdelhay22	2233390 - 15	GNU C11	Accepted	77 ms	136 KB	2025-03-28 14:40:58	2025-03-28 14:40:58	☆	Compare

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```
#include <stdio.h>

int fibonacci(int n) {
    if (n == 1) return 0;
    if (n == 2) return 1;
    return fibonacci(n - 1) + fibonacci(n - 2);
}

int main() {
    int N;
    scanf("%d", &N);
    printf("%d\n", fibonacci(N));
    return 0;
}
```

Judged Example Tests

1

Time: 46 ms, memory: 0 KB

Verdict: OK

Input

5

Participant's output

3

Problem 8

[3n + 1 sequence](#)

https://codeforces.com/group/MWSDmqGsZm/contest/223339/submission/312793264

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#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
312793264	Practice: alaaabdelhay22	223339Q - 6	GNU C11	Accepted	61 ms	92 KB	2025-03-28 14:47:08	2025-03-28 14:47:08	★	Compare

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```
#include <stdio.h>

int collatz_length(int n) {
    if (n == 1) return 1;
    if (n % 2 == 0)
        return 1 + collatz_length(n / 2);
    else
        return 1 + collatz_length(3 * n + 1);
}

int main() {
    int n;
    scanf("%d", &n);
    printf("%d\n", collatz_length(n));
    return 0;
}
```

Judged Example Tests

1

Time: 30 ms, memory: 76 KB

Verdict: OK

Input

1

Bonus:

Reach Value

https://codeforces.com/group/MWSDmqGsZm/contest/223339/submission/312793652

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#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
312793652	Practice: alaaabdelhay22	223339W - 12	GNU C11	Accepted	61 ms	64 KB	2025-03-28 14:49:47	2025-03-28 14:49:47	☆	Compare

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```
#include <stdio.h>

int canReach(long long current, long long target) {
    if (current > target) return 0;
    if (current == target) return 1;
    return canReach(current * 10, target) || canReach(current * 20, target);
}

int main() {
    int T;
    scanf("%d", &T);

    while (T--) {
        long long N;
        scanf("%lld", &N);
        printf(canReach(1, N) ? "YES\n" : "NO\n");
    }
    return 0;
}
```

Judged Example Tests

1

Time: 46 ms, memory: 0 KB

Verdict: OK