1. Missing Number

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

int t;

scanf("%d", &t);

while(t--)

{

long long int s, a, b, c;

scanf("%lld %lld %lld %lld", &s, &a, &b, &c);

long long int sum = 0;

sum += (a + b + c);

printf("%lld\n", s - sum);

}

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

return 0;

}

1. Out of Team

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

int n, k;

scanf("%d %d", &n, &k);

int run;

int count = 0;

for(int i = 0; i < n; i++)

{

scanf("%d", &run);

if(run < k)

count++;

}

printf("%d\n", count);

return 0;

}

1. Different Pattern

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

int n;

scanf("%d", &n);

for(int i = 1; i <= n; i++)

{

for(int j = i; j >= 1; j--)

{

printf("%d ", j);

}

printf("\n");

}

return 0;

}

1. Highest Marks

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

int n;

scanf("%d", &n);

int ar[n];

int highest = 0;

for(int i = 0; i < n; i++)

{

scanf("%d", &ar[i]);

if(ar[i] > highest)

highest = ar[i];

}

for(int i = 0; i < n; i++)

{

printf("%d ", highest - ar[i]);

}

return 0;

}

1. Bablu and Phone

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

int n;

scanf("%d", &n);

int ar[n];

int highest = 0;

for(int i = 0; i < n; i++)

{

scanf("%d", &ar[i]);

if(ar[i] > highest)

highest = ar[i];

}

for(int i = 0; i < n; i++)

{

printf("%d ", highest - ar[i]);

}

return 0;

}

1. Secret Code

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

int n, x, flag;

scanf("%d", &n);

for(int i = 0; i < n; i++)

{

scanf("%d", &x);

flag = 0;

if(x == 2)

{

printf("Yes\n");

continue;

}

if(x % 2 == 0 || x < 2)

{

printf("No\n");

continue;

}

for(int j = 3; j <= sqrt(x); j+=2)

{

if(x % j == 0)

{

flag = 1;

break;

}

}

if(!flag)

printf("Yes\n");

else

printf("No\n");

}

return 0;

}

1. Divide Them

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

int n;

scanf("%d", &n);

int ar[n+1];

for(int i = 1; i <= n; i++)

scanf("%d", &ar[i]);

int k;

scanf("%d", &k);

if(k == 0)

{

for(int i = 1; i <= n; i++)

printf("%d ", ar[i]);

}

else

{

for(int i = k + 1; i <= n; i++)

printf("%d ", ar[i]);

for(int i = 1; i <= k; i++)

printf("%d ", ar[i]);

}

return 0;

}

1. Hand Shakes

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

long long int n;

scanf("%lld", &n);

long long int sum = 0;

long long int persons = n-1;

for(long long int i = 1; i < n; i++)

{

sum += persons;

persons--;

}

printf("%lld", sum);

return 0;

}