

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int start, end;
6      cout << "Enter start and end: ";
7      cin >> start >> end;
8      if (start > end) {
9          cout << "Invalid input\n";
10         return 0;
11     }
12     while (start <= end) {
13         cout << start << "\n";
14         start++;
15     }
16     return 0;
17 }
```

D: > future > Yahia >  task1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n;
6      int start = 0;
7      char c;
8      cin >> n;
9      cin >> c;
10     if (n<=0){
11         cout << "invalid input" << endl;
12     }
13     while (start <= n){
14         cout << c;
15         start++;
16     }
17     return 0;
18 }
```

D: > future > Yahia >  task1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n;
6      cin >> n;
7      int start = 1;
8      if (n<=0){
9          cout << "invalid input" << endl;
10     }
11     while (start <= n){
12         int a = 1;
13         while (a <= start){
14             cout << "*";
15             a++;
16         }
17         cout << endl;
18         start++;
19     }
20
21     return 0;
22 }
```

D: > future > Yahia > task1.cpp > main()

```
4  int main() {
7      cin >> n;
8      int a = 1;
9      while (a <= n) {
10         int spaces = n - a;
11         int stars = 2 * a - 1;
12         int j = 0;
13         while (j < spaces) {
14             cout << " ";
15             j++;
16         }
17         j = 0;
18         while (j < stars) {
19             cout << "*";
20             j++;
21         }
22         cout << endl;
23         a++;
24     }
25     a = n - 1;
26     while (a > 0) {
27         int spaces = n - a;
28         int stars = 2 * a - 1;
29
30         int j = 0;
31         while (j < spaces) {
32             cout << " ";
33             j++;
34         }
35         j = 0;
36         while (j < stars) {
37             cout << "*";
38             j++;
39         }
40         cout << endl;
41         a--;
42     }
```

D: > future > Yahia >  task1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n;
6      cin >> n;
7      if (n <= 0) {
8          cout << "invalid input" << endl;
9      }
10     while (n >= 1) {
11         int a = 1;
12         while (a <= n) {
13             cout << "*";
14             a++;
15         }
16         cout << endl;
17         n--;
18     }
19     return 0;
20 }
```

21

D: > future > Yahia >  task1.cpp >  main()

```
4  int main() {
5      int N;
6      cin >> N;
7      int od = 0, ev = 0;
8      int oddCount = 0, evenCount = 0;
9      int i = 1;
10     while (i <= N) {
11         int num;
12         cin >> num;
13         if (i % 2 == 1) {
14             od += num;
15             oddCount++;
16         } else {
17             ev += num;
18             evenCount++;
19         }
20         i++;
21     }
22     int oddAvg = od / oddCount;
23     int evenAvg = ev / evenCount;
24     cout << oddAvg << " " << evenAvg << endl;
25     return 0;
26 }
27
```

D: > future > Yahia > task1.cpp > ...

```
4  int main() {
5      int n;
6      cin >> n;
7      int a= 1;
8      int b= 1;
9      while (a <= n) {
10         if (b % 3 == 0 && b % 4 != 0){
11             cout << b << " ";
12             a++;
13         }
14         b++;
15     }
16     return 0;
17 }
18
```

D: > future > Yahia >  task1.cpp > ...

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n;
6      cin >> n;
7      int a= 0;
8      while (a <= n) {
9          if (a % 3 == 0 && a % 4 == 0){
10             cout << a << " ";
11         }
12         else if (a % 8 == 0){
13             cout << a << " ";
14         }
15         a++;
16     }
17     return 0;
18 }
19
```


D: > future > Yahia >  task1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int number, R = 0;
6      cout << "Enter your Number : ";
7      cin >> number;
8      int a = number;
9      while (a > 0) {
10         int digit = a % 10;
11         R = R * 10 + digit;
12         a /= 10;
13     }
14     cout << R << " " << R * 3 << endl;
15     return 0;
16 }
17
```

D: > future > Yahia > task1.cpp > main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n,b;
6      int s=2e9, S=2e9;
7      cout << "Enter n numbers: ";
8      cout << "Enter your numbers : ";|
9      cin >> n;
10     while (1<=n) {
11         cin >> b;
12         if (b<s){
13             s=b;
14         }
15         n--;
16     }
17     cout << "Enter n numbers: ";
18     cout << "Enter your numbers: ";
19     cin >> n;
20     while (1<=n) {
21         cin >> b;
22         if (b<S){
23             S=b;
24         }
25         n--;
26     }
27     cout << s << " " << S;
28     return 0;
29 }
```

D: > future > Yahia > task1.cpp > main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int N, M;
6      cout << "Enter N and M : ";
7      cin >> N >> M;
8      int a = 1;
9      while (a <= N) {
10         int b = 1;
11         while (b <= M) {
12             cout << a << " x " << b << " = " << a * b << endl;
13             b++;
14         }
15         a++;
16     }
17     return 0;
18 }
19
```

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int a;
6      cin >> a;
7      while (a-- > 0) {
8          int N;
9          cin >> N;
10         int sum = 0, i = 1;
11         while (i <= N) {
12             int x;
13             cin >> x;
14             int power = 1, b = 0;
15             while (b < i) {
16                 power *= x;
17                 b++;
18             }
19             sum += power;
20             i++;
21         }
22         cout << sum << endl;
23     }
24 }
```

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int N;
6      cin >> N;
7      for (int i = 0; i < N; i++) {
8          for (int j = 0; j < N; j++) {
9              if (j == i || j == N - i - 1)
10                 cout << "*";
11             else
12                 cout << " ";
13             }
14             cout << endl;
15         }
16
17         return 0;
18     }
19
```

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int a = 0;
6      for (int X = 50; X <= 300; X++) {
7          for (int Y = 70; Y <= 400; Y++) {
8              if (X < Y && (X + Y) % 7 == 0) {
9                  a++;
10             }
11         }
12     }
13     cout << a << endl;
14     return 0;
15 }
```

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int count = 0;
6      for (int a = 1; a <= 200; a++) {
7          for (int b = 1; b <= 200; b++) {
8              for (int c = 1; c <= 200; c++) {
9                  for (int d = 1; d <= 200; d++) {
10                     if (a + b == c + d) {
11                         count++;
12                     }
13                 }
14             }
15         }
16     }
17
18     cout << count << endl;
19     return 0;
20 }
```

```
int main() {
    int N;
    cin >> N;
    bool a = true;
    for (int num = 2; num <= N; num++) {
        bool Prime = true;
        for (int i = 2; i * i <= num; i++) {
            if (num % i == 0) {
                Prime = false;
                break;
            }
        }
        if (Prime) {
            if (!a) cout << ",";
            cout << num;
            a = false;
        }
    }
    cout << endl;
    return 0;
}
```


D: > future > Yahia >  task1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n, a, b;
6      cin >> n >> a >> b;
7      int total_sum = 0;
8      for (int i = 1; i <= n; i++) {
9          int num = i, digit_sum = 0;
10         for (; num > 0; num /= 10) {
11             digit_sum += num % 10;
12         }
13         if (digit_sum >= a && digit_sum <= b) {
14             total_sum += i;
15         }
16     }
17     cout << total_sum << endl;
18     return 0;
19 }
20
```