```
ataic / laina / - taski.cpp / - Tilain()
  #include <iostream>
  using namespace std;
  int main() {
      int N;
      cin >> N;
      int arr[N], Index[501];
      for (int i = 0; i <= 500; i++) Index[i] = -1;
      for (int i = 0; i < N; i++) {
          cin >> arr[i];
          Index[arr[i]] = i;
      int Q, query;
      cin >> Q;
      while (Q--) {
          cin >> query;
           cout << Index[query] << endl;</pre>
```

```
#include <iostream>
     using namespace std;
     int main() {
          int N;
          cin >> N;
          int arr[N];
          int min = 2001, max = -1;
10
          for (int i = 0; i < N; i++) {
11
12
              cin >> arr[i];
              if (arr[i] < min) min = arr[i];</pre>
13
14
              if (arr[i] > max) max = arr[i];
15
16
          for (int i = 0; i < N; i++) {
17
              if (arr[i] == min) cout << max << " ";</pre>
18
              else if (arr[i] == max) cout << min << " ";
19
              else cout << arr[i] << " ";</pre>
20
21
22
23
          return 0;
24
25
```

```
#include <iostream>
     using namespace std;
     int main() {
         int N;
          cin >> N;
          int arr[N];
          for (int i = 0; i < N; i++) {
              cin >> arr[i];
11
12
13
          int min = 1e9;
14
15
          for (int i = 0; i < N - 1; i++) {
              for (int j = i + 1; j < N; j++) {
16
                  int result = arr[i] + arr[j] + (j - i);
17
                  if (result < min) {</pre>
18
19
                      min= result;
21
22
23
          cout << min << endl;</pre>
24
25
          return 0;
27
```

```
#include <iostream>
     using namespace std;
     int main() {
          int N;
          cin >> N;
          int arr[N];
          for (int i = 0; i < N; i++) {
              cin >> arr[i];
11
12
13
          bool isPalindrome = true;
          for (int i = 0; i < N / 2; i++) {
15
              if (arr[i] != arr[N - 1 - i]) {
                  isPalindrome = false;
17
                  break;
18
21
22
          if (isPalindrome) {
              cout << "YES" << endl;</pre>
23
          } else {
              cout << "NO" << endl;</pre>
27
          return 0;
29
30
```

```
#include <iostream>
     using namespace std;
 3
     int main() {
          int N;
          cin >> N;
          int arr[N];
          int freq[771] = \{0\};
10
          for (int i = 0; i < N; i++) {
11
              cin >> arr[i];
12
              freq[arr[i] + 500]++;
13
14
15
          int maxFreq = 0, mostFreqNum = -500;
          for (int i = 0; i < 771; i++) {
16
              if (freq[i] > maxFreq) {
17
                  maxFreq = freq[i];
18
                  mostFreqNum = i - 500;
19
20
21
          cout << mostFreqNum << endl;</pre>
22
          return 0;
23
24
25
26
```

```
#include <iostream>
     using namespace std;
     int main() {
         int N, num;
         int freq[10] = {0};
         cin >> N;
         for (int i = 0; i < N; i++) {
10
11
              cin >> num;
              while (num > 0) {
12
                  freq[num % 10]++;
13
                  num /= 10;
14
15
16
17
18
         for (int i = 0; i < 10; i++) {
              cout << i << " " << freq[i] << endl;</pre>
19
20
21
         return 0;
22
23
```

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```
#include <iostream>
using namespace std;
int main() {
    int index;
    cin >> index;
    int sequence[201] = {0};
    bool seen[5000] = {false};
    seen[0] = true;
    for (int i = 1; i \le 200; i++) {
        int next = sequence[i - 1] - i;
        if (next > 0 && !seen[next]) {
            sequence[i] = next;
        } else {
            sequence[i] = sequence[i - 1] + i;
        seen[sequence[i]] = true;
    cout << sequence[index] << endl;</pre>
    return 0;
```

```
#include <iostream>
using namespace std;
int main() {
    int K, N;
    cin \gg K \gg N;
    int arr[N];
    for (int i = 0; i < N; i++) {
        cin >> arr[i];
    int sum = 0, maxSum, startIndex = 0;
    for (int i = 0; i < K; i++) {
        sum += arr[i];
    maxSum = sum;
    for (int i = K; i < N; i++) {
        sum += arr[i] - arr[i - K];
        if (sum > maxSum) {
            maxSum = sum;
            startIndex = i - K + 1;
    for (int i = startIndex; i < startIndex + K; i++) {</pre>
        cout << arr[i] << " ";
    return 0;
```

```
#include <iostream>
     using namespace std;
     int main() {
         int N;
         cin >> N;
         int arr[N];
         for (int i = 0; i < N; i++) {
             cin >> arr[i];
10
12
         long long count = 0, length = 1;
13
14
15
         for (int i = 1; i < N; i++) {
             if (arr[i] > arr[i - 1]) {
16
                  length++;
               else {
18
                  count += (length * (length + 1)) / 2;
19
                  length = 1;
20
         count += (length * (length + 1)) / 2;
         cout << count << endl;</pre>
26
         return 0;
28
29
```

```
#include <iostream>
     using namespace std;
     int main() {
          int N, K;
          cin >> N >> K;
          int arr[200];
          for (int i = 0; i < N; i++) {
              arr[i] = i + 1;
10
11
12
13
          int index = 0;
14
          int remaining = N;
15
          while (remaining > 1) {
17
              index = (index + K - 1) % remaining;
18
              for (int i = index; i < remaining - 1; i++) {</pre>
19
                  arr[i] = arr[i + 1];
21
              remaining--;
22
23
          cout << arr[0] << endl;</pre>
24
25
          return 0;
27
```

```
#include <iostream>
     using namespace std;
     int main() {
         int N;
         cin >> N;
          int arr[1000], prefixSum[1000];
10
          for (int i = 0; i < N; i++) {
11
              cin >> arr[i];
12
              if (arr[i] == 0) arr[i] = -1;
13
14
          int maxLength = 0;
15
16
17
          for (int i = 0; i < N; i++) {
             int sum = 0;
18
              for (int j = i; j < N; j++) {
19
             sum += arr[j];
20
              if (sum == 0) {
21
               maxLength = max(maxLength, j - i + 1);
22
23
24
25
26
          cout << maxLength << endl;</pre>
27
28
         return 0;
29
```

```
int main() {
   int N;
   cout << "enter your array: ";</pre>
    cin >> N;
   if (N < 3) {
        cout << "على الأقل N 3 يجب أن يكون " << endl;
        return 1;
    int arr[N];
   cout << "ادخل" >> " ادخل" ;
    int min1 = 1000000, min2 = 1000000, min3 = 1000000;
    for (int i = 0; i < N; i++) {
        cin >> arr[i];
        if (arr[i] < min1) {</pre>
            min3 = min2;
            min2 = min1;
            min1 = arr[i];
        } else if (arr[i] < min2) {</pre>
            min3 = min2;
            min2 = arr[i];
        } else if (arr[i] < min3) {</pre>
            min3 = arr[i];
   cout << " " أصغر 3 أرقاع " << min1 << " " << min2 << " " << min3 << endl;
   return 0;
```

```
#include <iostream>
     using namespace std;
     int main() {
         int N;
          cin >> N;
          int arr[N];
          bool isIncreasing = true;
10
          for (int i = 0; i < N; i++) {
11
              cin >> arr[i];
12
              if (i > 0 && arr[i] < arr[i - 1]) {
13
                  isIncreasing = false;
14
15
17
          if (isIncreasing) {
18
              cout << "YES" << endl;</pre>
19
          } else {
              cout << "NO" << endl;</pre>
21
22
23
24
          return 0;
25
26
27
28
```

```
#include <iostream>
     using namespace std;
     int main() {
          string input, str;
          cin >> input >> str;
 6
          bool isPrefix = true;
          if (str.length() > input.length()) {
              isPrefix = false;
10
          } else {
              for (int i = 0; i < str.length(); i++) {</pre>
11
                  if (input[i] != str[i]) {
12
                 isPrefix = false;
13
                  break;
14
15
16
17
         if (isPrefix) {
18
19
              cout << "YES" << endl;</pre>
          } else {
20
21
              cout << "NO" << endl;
22
23
         return 0;
24
25
```

b. / luture / lama / • taskr.cpp / • main()

```
#include <iostream>
      using namespace std;
      int main() {
          string input, str;
          cin >> input >> str;
        bool isSuffix = true;
        int inputLen = input.length(), strLen = str.length();
 8
          if (strLen > inputLen) {
              isSuffix = false;
10
11
            else {
12
              for (int i = 0; i < strLen; i++) {
13
                  if (input[inputLen - strLen + i] != str[i]) {
14
              isSuffix = false;
               break;
15
16
17
18
          if (isSuffix) {
19
              cout << "YES" << endl;</pre>
20
21
          } else {
22
              cout << "NO" << endl;</pre>
23
24
          return 0;
25
26
```

```
#include <iostream>
     using namespace std;
     int main() {
         string input, str;
         cin >> input >> str;
         bool found = false;
         int inputLen = input.length(), strLen = str.length();
         for (int i = 0; i \leftarrow inputLen - strLen; i++) {
              bool match = true;
              for (int j = 0; j < strLen; j++) {
                  if (input[i + j] != str[j]) {
                  match = false;
13
           break;
16
              if (match) {
                  found = true;
                  break;
         if (found) {
              cout << "YES" << endl;</pre>
          } else {
              cout << "NO" << endl;</pre>
         return 0;
```

```
#include <iostream>
     using namespace std;
     bool isSubsequence(string input, string str) {
          int i = 0, j = 0;
          while (i < input.length() && j < str.length()) {</pre>
 5
              if (input[i] == str[j]) {
6
               j++;
              i++;
10
          return j == str.length();
11
12
     int main() {
13
          string input, str;
14
          cin >> input >> str;
15
16
          if (isSubsequence(input, str)) {
17
              cout << "YES" << endl;</pre>
18
            else {
19
            cout << "NO" << endl;</pre>
20
21
          return 0;
22
23
24
```

```
#include <iostream>
     using namespace std;
     int main() {
         int N, M;
         cin >> N >> M;
         int matrix[N][M];
         for (int i = 0; i < N; i++) {
              for (int j = 0; j < M; j++) {
                  cin >> matrix[i][j];
11
12
         int Q;
13
         cin >> Q;
         while (Q--) {
15
             int r1, r2;
17
             cin >> r1 >> r2;
             r1--; r2--;
19
             bool isSmaller = true;
              for (int j = 0; j < M; j++) {
21
                  if (matrix[r1][j] >= matrix[r2][j]) {
22
             isSmaller = false;
23
                     break;
25
27
              if (isSmaller)
                cout << "YES" << endl;</pre>
              else
29
                  cout << "NO" << endl;</pre>
31
32
         return 0;
```

```
#include <iostream>
     using namespace std;
     int main() {
         int N;
         cin >> N;
6
         int matrix[N][N];
         int upperSum = 0, lowerSum = 0;
         for (int i = 0; i < N; i++) {
              for (int j = 0; j < N; j++) {
10
                  cin >> matrix[i][j];
                if (j >= i)
12
                  upperSum += matrix[i][j];
13
                  if (i >= j)
14
                     lowerSum += matrix[i][j];
16
17
18
         cout << upperSum << endl;</pre>
         cout << lowerSum << endl;</pre>
20
         return 0;
```