BÁO CÁO THỰC HÀNH TUÀN 43 HỌC PHẦN: IT3040 - KỸ THUẬT LẬP TRÌNH - 20221

Muc Luc

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Bài tập 1: Tìm và sửa các lỗi cú pháp

```
C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai1.c - [Executing] - Dev-C++ 5.11
                                                                                                                                 File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                 1 #include <stdio.h>
                                                                              C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai1.exe
                  3 int x[100], mark[100], n,i,j;
                          for ( i = 1; i <= n; ++i) printf("%d ", x[i]);
Process exited after 0.07053 seconds with return value 0
Press any key to continue . . .</pre>
                  8 L }
                 10 process(int i) {
                         if (i > n){
                              print();
                 14
                 15
                          for (j = 1; j <= n; ++j)
                 16
                               if (!mark[j]){
                 17
                                   mark[j] = 1;
                 18
                                   x[i] = j;
                 19
                                   process(i+1);
                 20
                                   mark[j] = 0;
                 22 }
                 24 □ int main() {
🔡 Compiler (1) 🖷 Resources 🛍 Compile Log 🥏 Debug 🗓 Find Results
Line: 26 Col: 27 Sel: 0 Lines: 30 Length: 536
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                                        O 🛱 🩋 🔚 📋 🙀 🦻
                                                                               w
C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai1.c - [Executing] - Dev-C++ 5.11
                                                                                                                                  (globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                 8 <sup>L</sup> }
                 10 □ void process(int i) {
                 11 🖨
                          if (i > n){
                 12
                              print();
                 13
                               return;
                 14
                          for (j = 1; j <= n; ++j)
                 15
                               if (!mark[j]){
                 16 🖨
                 17
                                  mark[j] = 1;
                                   x[i] = j;
                 18
                 19
                                   process(i+1);
                 20
                                   mark[j] = 0;
                 21
                 22 }
                 24 □ int main() {
                          printf("Ho Va Ten:Brak Lihou\n");
                 26
                          printf("MSSV: 20200836\n\n");
                 27
                          public int __cdecl printf (const char * __restrict_ _Format, ...)
                 28
                          process(1);
                 29
                          return 0;
                 30 L }
Compiler (1) has Resources have Compile Log Debug k. Find Results
        Col: 27 Sel: 0 Lines: 30 Length: 536

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                                        0
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```

Bài tập 2: Tìm và sửa các lỗi cú pháp

```
C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai2.cpp - [Executing] - Dev-C++ 5.11
   Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                 1 #include <iostream>
                                                                     C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai2.exe
                 2 using namespace std;
                 3
                 4 int n, M, m[100], v[100];
                 5 int x[100], best, sumV, sumM, All[100];
                 7 proid init(){
                 8 🗖
                         for (int i = n; i >= 1; --i){
                 9
                              All[i] = All[i+1] + v[i];
                10 |
11 |
                                                                      ocess exited after 8.289 seconds with return value 0 ess any key to continue . . . —
                12
                13 print() {
                14 |
15 }
                         cout << best;</pre>
                16
                17 process(int i){
                         if (sumV + All[i] <= best || sumM > M) return;
                18
                          if (i > n){
                19 🛱
                              best = sumV;
                20
                21
                              return;
                22
                23
                         process(i+1);
                24
                          sumM += m[i];
Compiler 🖷 Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results
Line: 33 Col: 27 Sel: 0 Lines: 41 Length: 742
Type here to search
                                       O 🛱 🧶 🔚 🗃 🚖 🧿
C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai2.cpp - [Executing] - Dev-C++ 5.11
                                                                                                                               File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                19 🖨
                         if (i > n){
                20
                              best = sumV;
                21
                              return;
                22
                23
                         process(i+1);
                24
                          sumM += m[i];
                          sumV += v[i];
                25
                26
                          process(i+1);
                27
                          sumM -= m[i];
                28
                          sumV -= v[i];
                29 L }
                30
                31 int main() {
32 printf("Ho Va Ten: Brak Lihou\n");
                          printf("MSSV: 20200836\n\n");
                33
                34
                          cin >> n >> M;
                         for (int i = 1; i <= n; ++i)
cin >> m[i] >> v[i];
                35
                36
                         init();
                37
                38
                          process(1);
                39
                          print();
                40
                          return 0;
                41 | }
Compiler 🖷 Resources 📶 Compile Log 🤣 Debug 🗓 Find Results
Line: 37 Col: 12 Sel: 0 Lines: 41 Length: 742
     0
```

Bài tập 3: Dãy ngoặc đúng

```
C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai3.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
□ 🔞 🖫 🖷 🚳 🖺 📗 🔷 🖊 □ 🚨 □ 📲 □ 📲 □ 🖽 □ 🖽 □ 🖽 □ 🖽 🚵 □ IDM-GCC 4.9.2 64-bit Release 🔻
 (globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                   1 #include <iostream>
                                                                                    C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai3.e...
                      using namespace std;
                                                                                   Ho Va Ten: Brak Lihou
MSSV: 20200836
                   3 #include <string.h>
                   4 #include <stack>
                   6 pint par(string str){
                            int a = str.length();
                                                                                     rocess exited after 2.386 seconds with return value 0 ress any key to continue . . .
                   8
                            stack<char> S;
                   9
                             char x, y;
                  10 🖨
                            for (int i=0; i<a; i++){
                                 x = str[i];
if (x == '(' || x == '[' || x == '{'}{
                  11
                  12 🖨
                  13
                                      S.push(x);
                  14
                  15 🖨
                                     if(S.size() == 0) return 0;
                  16
                                      if (x == ')') {
   if (S.top() == '('){
                  17 🛱
                  18 🖨
                  19
                                             S.pop();
                  20
                  21
                                           else return 0;
                  22
                                      else if (x == ']') {
   if (S.top() == '['){
                  23 🛱
                  24 🖨
Compiler Resources Compile Log Debug S Find Results
Line: 45 Col: 27 Sel: 0 Lines: 56 Length: 1199 Insert
                                                            Done parsing in 0.016 seconds
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                                    o # 🩋 📒 🕫 🖻 🧕
Type here to search
                                                                                     w I
C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai3.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
 (globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                  22 <del>|</del>
23 <del>|</del>
                                      else if (x == ']') {
  if (S.top() == '['){
                  24 🖨
                  25
                                               S.pop();
                  26
                  27
                                           else return 0;
                  28
                                      else if (x == '}') {
   if (S.top() == '{'){
                  29 🛱
                  30 ₪
                  31
                                               S.pop();
                  32
                  33
                                           else return 0;
                  34
                  35
                  36
                  37 🖨
                            if (S.size() != 0){
                  38
                                 return 0;
                  39
                  40
                            else return 1;
                  41 }
                  42
                  43 pint main(){
                            printf("Ho Va Ten: Brak Lihou\n");
                  44
                  45
                            printf("MSSV: 20200836\n\n");
Compiler Resources Compile Lo public int __cdecl printf (const char * __restrict_ _Format, ...)
Line: 45 Col: 27 Sel: 0 Lines: 56 Length: 1199
                                                            Done parsing in 0.016 seconds
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```
C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai3.cpp - [Executing] - Dev-C++ 5.11
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Chosenspark Undurvesktopistac Lundurvesktopistac Lu
   (globals)
  Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                                                                34 -
35 -
36 -
37 =
                                                                                                                  }
                                                                                                    if (S.size() != 0){
                                                                 38
39
                                                                                                   return 0;
                                                                40 41 }
                                                                                                    else return 1;
                                                                 42
                                                                 43 □ int main(){
                                                                                                   printf("Ho Va Ten: Brak Lihou\n");
printf("MSSV: 20200836\n\n");
public int _cdecl printf (const char * _restrict__format, ...)
                                                                 44
                                                                 45
                                                                 46
                                                                 47
                                                                                                    string str;
                                                                 48
                                                                                                   cin >> n;
for(int i=0; i<n; i++){</pre>
                                                                 49
                                                                 50 🖨
                                                                 51
                                                                                                                  cin >> str;
                                                                                                                    cout << par(str) << endl;</pre>
                                                                 52
                                                                 53
                                                                 54
                                                                 55 <sub>56</sub> }
                                                                                                    return 0;
 Compiler Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results
Line: 45 Col: 27 Sel: 0 Lines: 56 Length: 1199
                                                                                                                                                                                                                                                                                                                                                                                                         Type here to search
```

Bài tập 4: Bài toán người du lịch

```
C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai4.cpp - [Executing] - Dev-C++ 5.11
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(globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                1 #include <bits/stdc++.h>
                                                                                using namespace std;
                3 int m, n, Smin = 1000000;
                4
                   long long S = 0;
                5 int cmin = 100000000;
                   int x[100];
                7 int c[100][100];
                8 vector<int> flag(100, false);
                9 void TRY(int k)
                10 □ {
                        for (int i = 2; i <= n; i++)
                11
                                                                                 rocess exited after 5.976 seconds with return value 0 ress any key to continue . . .
                12 🖨
                13
                            if (flag[i] == false && c[x[k - 1]][i] != -1)
                14 🖨
                15
                                 flag[i] = true;
                                x[k] = i;
S = S + c[x[k - 1]][i];
                16
                17
                18
                                if (k == n)
                19 🖨
                                     if (S + c[i][1] < Smin && c[i][1] != -1)</pre>
                20
                21
                                    Smin = S + c[i][1];
                22
                                 else if (S + cmin * (n - k + 1) < Smin)
                23
                24 🗀
Compiler 🖷 Resources 📶 Compile Log 🤣 Debug 🗓 Find Results
Line: 36 Col: 27 Sel: 0 Lines: 58 Length: 1294 Insert
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18/07/22
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C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai4.cpp - [Executing] - Dev-C++ 5.11
                                                                                                                          File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                19 🖨
                20
                                     if (S + c[i][1] < Smin && c[i][1] != -1)
                                       Smin = S + c[i][1];
                21
                22
                23
                                 else if (S + cmin * (n - k + 1) < Smin)
                24
                25
                26
                                     TRY(k + 1);
                27
                28
                                 flag[i] = false;
                29
                                 S = S - c[x[k - 1]][i];
                30
                31
                32 <sup>1</sup>
                33 main()
                34 ₽ {
                35
                        printf("Ho Va Ten: Brak Lihou\n");
                36
                        printf("MSSV: 20200836\n\n");
                37
                        int a, b;
                38
                        cin >> n >> m;
                        for (int i = 1; i <= n; i++)
for (int j = 1; j <= n; j++)
                39
                40
                41 🖨
                42
                                 if (i == j)
Compiler Resources Compile Log Debug 🖟 Find Results
Line: 35 Col: 39 Sel: 0 Lines: 58 Length: 1294
                                                    Done parsing in 0.016 seconds
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                                      23:36 □ 18/07/22 □
```

Line: 14 Col: 26 Sel: 0 Lines: 22 Length: 426

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```
C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai4.cpp - [Executing] - Dev-C++ 5.11
                                                                                                                                 o x
File Edit Search View Project Execute Tools AStyle Window Help
 (globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                          printf("MSSV: 20200836\n\n");
                 36
                 37
                          int a, b;
                 38
                          cin >> n >> m;
                 39
                          for (int i = 1; i <= n; i++)
                 40
                               for (int j = 1; j <= n; j++)
                 41 🖨
                 42
                                   if (i == j)
                                   c[i][j] = 0;
else
                 43
                 44
                 45
                                   c[i][j] = -1;
                 46
                 47
                          for (int i = 0; i < m; i++)
                 48 🖹
                 49
                               cin >> a >> b;
                 50
                               cin >> c[a][b];
                 51
                               if (c[a][b] < cmin)</pre>
                 52
                                  cmin = c[a][b];
                 53
                 54
                          x[1] = 1;
                 55
                          flag[1] = true;
                 56
                          TRY(2);
                 57
                          cout << Smin;</pre>
                 58 L }
Compiler Resources ( Compile Log 🗸 Debug 🗓 Find Results
Line: 35 Col: 39 Sel: 0 Lines: 58 Length: 1294
                                                         Done parsing in 0.016 seconds
                                         O Ħ
                                                                                                         <u>^</u> 26°C ^ @  (( d)) ENG <sup>23:36</sup> □
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Bài tập 5: Năm nhuận
C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai5.cpp - [Executing] - Dev-C++ 5.11
   Edit Search View Project Execute Tools AStyle Window Help
 (globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                  1 #include <bits/stdc++.h>
                                                                                        C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_...
                  2 using namespace std;
                                                                                       Ho Va Ten: Brak Lihou
MSSV: 20200836
                  3
                  4 □ int main(){
                          printf("Ho Va Ten: Brak Lihou\n");
                  5
                          printf("MSSV: 20200836\n\n");
                  6
                  7
                          int n;
                                                                                        rrocess exited after 2.974 seconds with return value 0 ress any key to continue . . . .
                  8
                          cin >> n;
                          bool found = false;
                  9
                 10 📥
                          while(n--){
                 11
                              int a;
                 12
                               cin >> a:
                               if ((a % 4 == 0 && a % 100 != 0) || (a % 400 == 0)
                 13 🖨
                                   found = true;
cout << "Yes";
                 14
                 15
                                   return 0;
                 16
                 17
                 18
                 19
                          }
                 20
                          cout << "No";
                 21
                 22 L }
Compiler Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results
```

Done parsing in 0.016 seconds

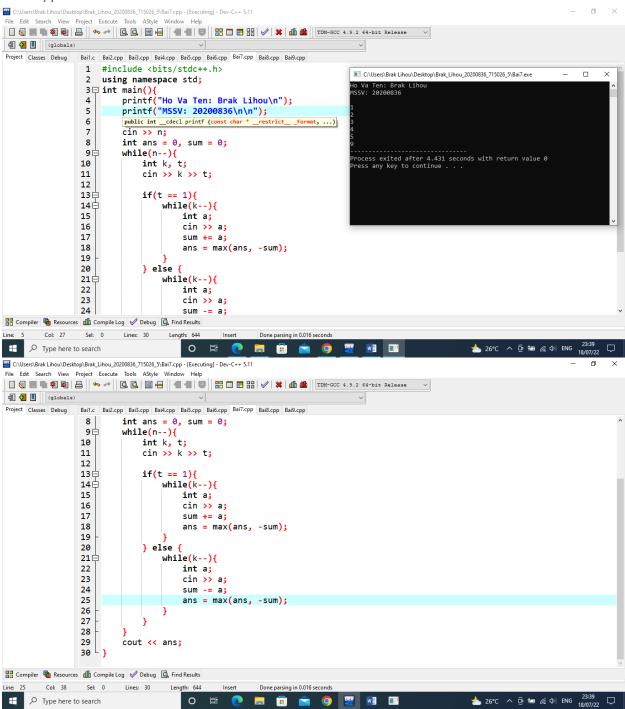
O 🛱 🥷 📙 🛱 🔿 🧿

1 26°C ∧ @ 1 (a) ENG 23:37 □

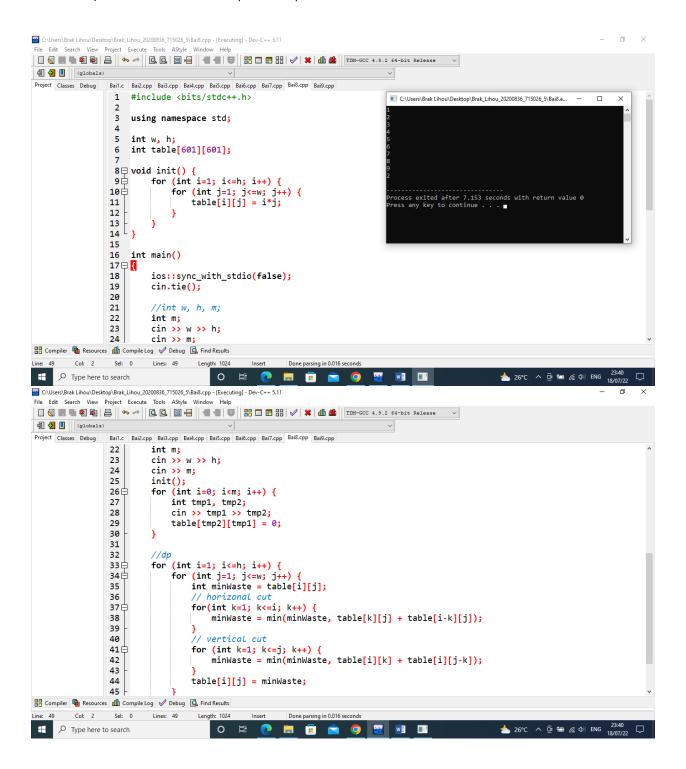
Bài tập 6: Tổng kết

```
C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai6.cpp - [Executing] - Dev-C++ 5.11
                                                                                                                                                                                                                                                         File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                                                                                                                                                        C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai6.exe
                                  1 #include <bits/stdc++.h>
                                   2 using namespace std;
                                  4 □ char cal(double a){
                                                  if (a < 4) return 'F';
                                                   if (4 <= a && a < 5.5) return 'D';
                                                                                                                                                        rocess exited after 1.681 seconds with return value 0 ress any key to continue . . . \blacksquare
                                                   if (5.5 <= a && a < 7) return 'C';
                                                   if (7 <= a && a < 8.5) return 'B';
                                                   if (8.5 <= a) return 'A';
                                 10 L }
                                 12 pint main(){
                                                   printf("Ho Va Ten: Brak Lihou\n");
                                 13
                                                   printf("MSSV: 20200836\n\n");
                                 14
                                 15
                                                   public int __cdecl printf (const char * __restrict_
                                 16
                                                   int A = 0, B = 0, C = 0, D = 0, F = 0;
                                 17
                                 18 🖨
                                                   while(n--){
                                 19
                                                           int a;
                                 20
                                                           cin >> a;
                                 21
                                                           char calA = cal(a);
                                 22
                                 23
                                                           if (calA == 'A') ++A;
                                 24
                                                           if (calA == 'B') ++B;
🔡 Compiler 🖷 Resources 🛍 Compile Log 🤣 Debug 🔼 Find Results
Line: 14 Col: 27 Sel: 0 Lines: 30 Length: 726
                                                                                                                                                                                                          <u>^</u> 26°C ^ @  // վ») ENG 23:38
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C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai6.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
 (globals)
 Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
                                  8
                                                 if (7 <= a && a < 8.5) return 'B';
                                  9
                                                   if (8.5 <= a) return 'A';
                                 10 }
                                 11
                                 12 □ int main(){
                                 13
                                                   printf("Ho Va Ten: Brak Lihou\n");
                                                   printf("MSSV: 20200836\n\n");
                                 15
                                                   int n;
                                 16
                                                   cin >> n;
                                 17
                                                   int A = 0, B = 0, C = 0, D = 0, F = 0;
                                 18 🖨
                                                   while(n--){
                                 19
                                                           int a;
                                 20
                                                           cin >> a;
                                                           char calA = cal(a);
                                 21
                                 22
                                 23
                                                           if (calA == 'A') ++A;
                                                           if (calA == 'B') ++B;
                                 25
                                                           if (calA == 'C') ++C;
                                 26
                                                           if (calA == 'D') ++D;
                                 27
                                                           if (calA == 'F') ++F;
                                 28
                                 29
                                                   cout << A << " " << B << " " << C << " " << D << " " << F;
🔡 Compiler 🍓 Resources 🛍 Compile Log 🤣 Debug 🔼 Find Results
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Bài tập 7: Chia tiền

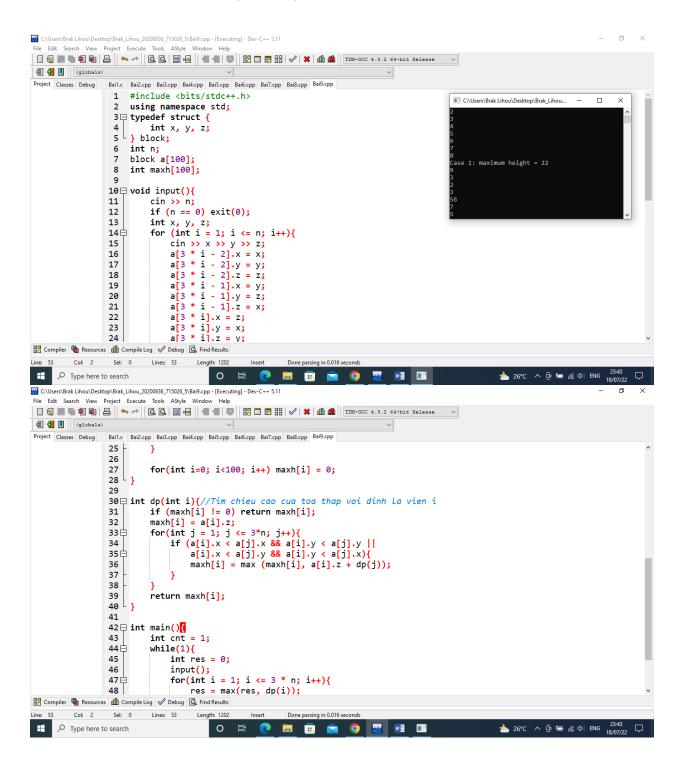


Bài tập 8: Cắt hình chữ nhật



```
- o ×
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai9.cpp
               27
                          int tmp1, tmp2;
               28
                           cin >> tmp1 >> tmp2;
               29
                           table[tmp2][tmp1] = 0;
               30
               31
               32
                       //dp
                       for (int i=1; i<=h; i++) {
               33 🖨
                           for (int j=1; j<=w; j++) {
               34 🖨
                               int minWaste = table[i][j];
               35
               36
                               // horizonal cut
                               for(int k=1; k<=i; k++) {</pre>
               37 🖨
               38
                                   minWaste = min(minWaste, table[k][j] + table[i-k][j]);
               39
                               // vertical cut
               40
               41 🖨
                               for (int k=1; k<=j; k++) {</pre>
                                  minWaste = min(minWaste, table[i][k] + table[i][j-k]);
               42
               43
                               table[i][j] = minWaste;
               44
               45
               46
               47
               48
                       cout << table[h][w] << endl;</pre>
               49
Compiler Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results
Line: 49 Col: 2 Sel: 0 Lines: 49 Length: 1024
                                                 Done parsing in 0.016 seconds
Type here to search
                                   O # (0 III O III O III O III O
                                                                                           18/07/22 □ 18/07/22 □ 26°C ヘ ⓒ 18 (4) ENG 18/07/22 □
```

Bài tập 9: Xây tháp



```
- o ×
C:\Users\Brak Lihou\Desktop\Brak_Lihou_20200836_715026_5\Bai9.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Bai1.c Bai2.cpp Bai3.cpp Bai4.cpp Bai5.cpp Bai6.cpp Bai7.cpp Bai8.cpp Bai8.cpp
                         if (maxh[i] != 0) return maxh[i];
                31
                         maxh[i] = a[i].z;
for(int j = 1; j <= 3*n; j++){
                32
                33 🖨
                              if (a[i].x < a[j].x && a[i].y < a[j].y ||
| a[i].x < a[j].y && a[i].y < a[j].x){
                34
                35 🖨
                36
                                  maxh[i] = max (maxh[i], a[i].z + dp(j));
                37
                38
                39
40 }
                         return maxh[i];
                41
                42 □ int main(){
                43
                         int cnt = 1;
                44 🖨
                         while(1){}
                45
                              int res = 0;
                46
                              input();
                              for(int i = 1; i <= 3 * n; i++){
                47 □
                                 res = max(res, dp(i));
                48
                49
                              printf("Case %d: maximum height = %d\n", cnt++, res);
                50
                51
                52
                         return 0;
Compiler Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results
Line: 53 Col: 2 Sel: 0 Lines: 53 Length: 1202
                                                       Done parsing in 0.016 seconds
Type here to search
                                                                                                     18/07/22 □ 26°C ^ @ 18 (a) ENG 18/07/22 □
```