Mega Project Summer Training

Problem Solving Tasks

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Task 1 -> Fixed Password (1114)

Task 2 -> Type of Fuel (1134)

Task 3 -> Walking in Time (2235)

Task 4 -> Hard Choice (2702)

Task 5 -> Divisor1 (1157)

Task 6 -> Bino's Challenge (2060)

Task 1: Fixed Password

Problem Code: 1114

Beecrowd Accepted:

```
SUBMISSION # 29089355
 PROBLEM:
                           1114 - Fived Password
 ANSWER:
LANGUAGE:
                           C++17 (g++ 7.3.0, -std=c++17 -O2 -lm) [+0s]
 RUNTIME:
                           0.000s
                         361 Bytes
 MEMORY:
                         8/3/22, 6:16:04 AM
SUBMISSION:
                                                                              SOURCE CODE
  1 #include (instream)
3 using namespace
4 5 int main() {
6 6 7 int passwo
8 bool flag
9 v while (fla
10 cin>>p
11 if (pa
12 cc
13 fl
14 } else{
16 cc
17 }
18 )
19
20 return 0;
             int password;
bool flag = rue;
while (flag){
   icin>password;
   if (password == 2002){
        flag = false;
   }
}
                  }
else{
  cout<<"Senha Invalida"<<endl;</pre>
```

```
#include <iostream>
using namespace std;
int main(){

   int password;
   bool flag = true;
   while (flag){
      cin>>password;
      if (password == 2002){
            cout<<"Acesso Permitido"<<endl;
            flag = false;
        }
        else{
            cout<<"Senha invalida"<<endl;
      }
   }
   return 0;
}</pre>
```

Task 2: Type of Fuel

Problem Code: 1134

Beecrowd Accepted:

```
SUBMISSION # 29089594

PROBLEM: 1134 - Type of Fuel
ANSWER: Accepted
LANGUAGE: C++17 (g++7.3.0, -std=c++17 -O2 -lm) [+0s]
RUNTINE: 0.000s
FILE SIZE: 646 Bytes
MEMORY: -
SUBMISSION: 8/3/22, 7:08:04 AM
```

```
#include <iostream>
using namespace std;
int main(){
    int fuel_type;
    int alcholCounter = 0, dieselCounter = 0, gasolineCounter = 0;
    cin >> fuel_type;
    while(fuel_type != 4){
        if(fuel type == 1){
            alcholCounter++;
        else if(fuel_type == 2){
            gasolineCounter++;
        else if(fuel_type == 3){
            dieselCounter++;
        cin >> fuel_type;
    cout<<"MUITO OBRIGADO"<<endl;</pre>
    cout<<"Alcool: "<<alcholCounter<<endl;</pre>
    cout<<"Gasolina: "<<gasolineCounter<<endl;</pre>
    cout<<"Diesel: "<<dieselCounter<<endl;</pre>
    return 0;
```

Task 3: Walking in Time

Problem Code: 2235

Beecrowd Accepted:

```
      SUBMISSION # 29103696

      PROBLEM:
      2235 - Walking in Time

      ANSWER:
      Accepted

      LANGUAGE:
      C++17 (g++7.3.0, -std=c++17 -O2 -lm) [+0s]

      RUNTIME:
      0.000s

      FILE SIZE:
      471 Bytes

      MEMORY:
      -

      SUBMISSION:
      8/4/22, 4:54:41 AM
```

```
#include <iostream>
using namespace std;
int main(){{
    int a, b, c;
    cin >> a >> b >> c;
    bool event1 = a - b == 0;
    bool event2 = a - c == 0;
    bool event3 = b - c == 0;
    bool event4 = (a + b) - c == 0;
    bool event5 = (a + c) - b == 0;
    bool event6 = (b + c) - a == 0;
    if(event1 || event2 || event3 || event4 || event5 || event6){
        cout << "S" << endl;
    }
    else{
        cout << "N" << endl;
    }
    return 0;
}</pre>
```

Task 2: Hard Choice

Problem Code: 2702

Beecrowd Accepted:

```
SUBMISSION # 29103993

PROBLEM: 2702 - Hard Choice

ANSWER: Accepted

LANGUAGE: C++17 (g++ 7.3.0, -std=c++17 -O2 -lm) [+0s]

RUNTIME: 0.000s

FILE SIZE: 829 Bytes

MEMORY: -

SUBMISSION: 8/4/22, 5:47:17 AM
```

```
SOURCE CODE
 1 #include <iostream>
     using namespace std;
 3 - int main(){
        int available_chicken, available_beef, available_pasta;
        int required_chicken, required_beef, required_pasta;
cin>>available_chicken>>available_beef>>available_pasta;
         cin>>required_chicken>>required_beef>>required_pasta;
         int un_recived_chicken = 0, un_recived_beef = 0, un_recived_pasta = 0;
        if(required_chicken > available_chicken){
            un_recived_chicken = required_chicken - available_chicken;
11
        if(required_beef > available_beef){
13
14
            un_recived_beef = required_beef - available_beef;
15 +
         if(required_pasta > available_pasta){
16
            un_recived_pasta = required_pasta - available_pasta;
17
18
         int result = un_recived_chicken + un_recived_beef + un_recived_pasta;
19
         cout<<result<<endl:
```

```
#include <iostream>
using namespace std;
int main(){
    int available_chicken, available_beef, available_pasta;
    int required_chicken, required_beef, required_pasta;
    cin>>available_chicken>>available_beef>>available_pasta;
    cin>>required chicken>>required beef>>required pasta;
    int un recived chicken = 0, un recived beef = 0, un recived pasta = 0;
    if(required_chicken > available_chicken){
        un_recived_chicken = required_chicken - available_chicken;
    if(required_beef > available_beef){
        un recived beef = required beef - available beef;
    if(required_pasta > available_pasta){
        un_recived_pasta = required_pasta - available_pasta;
    int result = un recived chicken + un recived beef + un recived pasta;
    cout<<result<<endl;</pre>
    return 0;
```

Task 2: Divisor1

Problem Code: 1157

Beecrowd Accepted:

```
SUBMISSION # 29102946

PROBLEM: 1157 - Divisors I

ANSWER: Accepted

LANGUAGE: C++17 (g++ 7.3.0, -std=c++17 -O2 -lm) [+0s]

RUNTIME: 0.000s

FILE SIZE: 208 Bytes

MEMORY: -

SUBMISSION: 8/4/22, 3:14:01 AM
```

```
#include <iostream>
using namespace std;

int main(){
    int n;
    cin >> n;
    for(int i = 1; i <= n; i++){
        if(n % i == 0){
            cout << i << endl;
        }
        return 0;
}

source code

#include <iostream>
using namespace std;
int main(){
    int n;
    cin >> n;
    for(int i = 1; i <= n; i++){
        if(n % i == 0){
            cout << i << endl;
        }
        return 0;
}
```

```
#include <iostream>
using namespace std;
int main(){
    int n;
    cin >> n;
    for(int i = 1; i <= n; i++){
        if(n % i == 0){
            cout << i << endl;
        }
    }
    return 0;
}</pre>
```

Task 2: Bino's Challenge

Problem Code: 2060

Beecrowd Accepted:

```
SUBMISSION # 29103273

PROBLEM: 2060 - Bino's Challenge

ANSWER: Accepted

LANGUAGE: C++17 (g++ 7.3.0, -std=c++17 -O2 -lm) [+0s]

RUNTIME: 0.000s

FILE SIZE: 742 Bytes

MEMORY: -

SUBMISSION: 8/4/22, 3:58:56 AM
```

```
#include <iostream>
using namespace std;
int main(){
    int n;
    int counter2 = 0, counter3 = 0, counter4 = 0, counter5 = 0;
    cin >> n;
    int arr[n];
    for(int i = 0; i < n; i++){
        cin>>arr[i];
    }
    for(int i = 0; i < n; i++){
        if(arr[i] % 2 == 0){counter2++;}
        if(arr[i] % 3 == 0){counter3++;}
        if(arr[i] % 4 == 0){counter4++;}
        if(arr[i] % 5 == 0){counter5++;}
    }
    cout<<counter2<<<</pre>
    Multiplo(s) de 2"<<end1;
    cout<<counter4<<<</pre>
    Multiplo(s) de 4"<<end1;
    cout<<counter5<<</pre>
    Multiplo(s) de 5"<<end1;
    return 0;
}
```