

1.

```
1. #include <iostream>
2. #include <stdlib.h>
3. #include <fstream>
4.
5. using namespace std;
6.
7. int main(){
8.     int a, b, c;
9.
10.    ifstream dataFile;
11.    dataFile.open("data.txt");
12.
13.    dataFile >> a;
14.    dataFile >> b;
15.    dataFile >> c;
16.
17.    dataFile.close();
18.
19.    return 0;
20. }
```

2.

```
1. #include <iostream>
2. #include <stdlib.h>
3. #include <fstream>
4.
5. using namespace std;
6.
7. int main(){
8.     string firstWord; secondWord;
9.
10.    ifstream text;
11.    text.open("mozart.txt");
12.
13.    fileIn >> firstWord;
14.    fileIn >> secondWord;
15.
16.    cout << secondWord << endl;
17.
18.    text.close();
19.
20.    return 0;
21. }
```

3.

```
1. #include <iostream>
```

```

2 #include <stdlib.h>
3 #include <fstream>
4 #include <iomanip>
5
6 using namespace std;
7
8 int main(){
9     int a;
10
11     ifstream numText;
12     numText.open("numbers.txt");
13
14     fileIn >> a;
15
16     ofstream digit;
17     digit.open("three.txt");
18     digit << setprecision(3) << fixed << a << endl;
19     digit.close();
20
21     return 0;
22 }
```

4.

```

1 #include <iostream>
2 #include <stdlib.h>
3 #include <fstream>
4
5 using namespace std;
6
7 int main(){
8     int a, b, c;
9
10    ifstream thatWay;
11    thatWay.open("forward.txt");
12
13    fileIn >> a;
14    fileIn >> b;
15    fileIn >> c;
16
17    ofstream thisWay;
18    thisWay.open("backward.txt");
19
20    thisWay << c << b << a << endl;
21
22    thatWay.close();
23    thisWay.close();
24
25    return 0;
26 }
```

5.

```

1 #include <iostream>
2 #include <stdlib.h>
3 #include <fstream>
4
```

```

5      using namespace std;
6
7      int main(){
8          int a, b, c;
9
10         ifstream nums;
11         nums.open("numbers.txt");
12
13         cin >> a;
14         cin >> b;
15         cin >> c;
16
17         nums << a + b + c << endl;
18
19         nums.close();
20
21         return 0;
22     }

```

6.

```

1 #include <iostream>
2 #include <stdlib.h>
3 #include <fstream>
4
5     using namespace std;
6
7     int main(){
8         int a;
9
10        ifstream nums;
11        nums.open("numbers.txt");
12
13        fileIn >> a;
14
15        cout << a + 1 << endl;
16
17        nums.close();
18
19        return 0;
20    }

```

7.

```

1 #include <iostream>
2 #include <stdlib.h>
3 #include <fstream>
4
5     using namespace std;
6
7     int main(){
8         int a, b, c;
9
10        ifstream nums;
11        nums.open("numbers.txt");
12
13        fileIn >> a;

```

```
14     fileIn >> b;
15     fileIn >> c;
16
17     cout << a + b + c << endl;
18
19     nums.close();
20
21     return 0;
22 }
```

```
8.
1 #include <iostream>
2 #include <stdlib.h>
3 #include <fstream>
4
5 using namespace std;
6
7 int main(){
8     string hi = Hello;
9     ofstream hello;
10    hello.open("text.txt");
11
12    hello << hi << endl;
13
14    hello.close();
15
16    return 0;
17 }
```

```
9.
1 #include <iostream>
2 #include <stdlib.h>
3 #include <fstream>
4
5 using namespace std;
6
7 int main(){
8     char a, b c;
9
10    instream bunchOfChars;
11    bunchOfChars.open("in.txt");
12
13    fileIn >> a;
14    fileIn >> b;
15    fileIn >> c;
16
17    ofstream firstAndLast;
18    firstAndLast.open("out.txt");
19    firstAndLast << a << b << c << endl;
20
21    bunchOfChars.close();
22    firstAndLast.close();
23
24    return 0;
25 }
```

```
10.
1 #include <iostream>
2 #include <stdlib.h>
3 #include <fstream>
4
5 using namespace std;
6 int main(){
7     double p;
8
9     ofstream price;
10    price.open("price.txt");
11
12    price << setprecision(2) << fixed << p << endl;
13
14    return 0;
15 }
```

```
11.
1 #include <iostream>
2 #include <stdlib.h>
3
4 using namespace std;
5 int main(){
6     int mystery;
7     srand(time(0));
8     mystery = rand() %4;
9
10    if ()mystery % 4 == 1){
11        cout << "Red" << endl;
12    } else if (mystery % 4 == 2){
13        cout << "Green" << endl;
14    } else if (mystery % 4 == 3){
15        cout << "Blue" << endl;
16    }
17
18    return 0;
19 }
```

```
12.
1 #include <iostream>
2 #include <stdlib.h>
3
4 using namespace std;
5 int main(){
6     int mystery;
7     srand(time(0));
8     mystery = rand() % 11;
9
10    if(mystery == 1 || mystery == 2){
11        cout << "Bad day" << endl;
12    } else {
13        cout << "Good day" << endl;
14    }
15
16    return 0;
```

```
17 }
```

13.

```
1 #include <iostream>
2 #include <stdlib.h>
3
4 using namespace std;
5 int main(){
6     int mystery;
7
8     srand(time(NULL));
9     mystery = rand() % 101;
10
11    if (mystery < 31){
12        cout << "precipitation" << endl;
13    } else {
14        cout << "sun" << endl;
15    }
16
17    return 0;
18 }
```

14.

```
1 #include <iostream>
2 #include <stdlib.h>
3 #include <cmath>
4
5 using namespace std;
6
7 double Pythagorean(int a, int b){
8     double c = sqrt(pow(a, 2) + pow(b, 2));
9
10    return c;
11 }
12
13 int main(){
14     int a, b;
15     srand(time(NULL));
16     a = rand() % 10 + 1;
17     b = rand() % 10 + 1;
18
19     if(Pythagorean(a, b)) > 10{
20         cout << "Long" << endl;
21     }
22
23     return 0;
24 }
```

15.

```
1 #include <iostream>
2 #include <stdlib.h>
3
4 using namespace std;
5 int main(){
6     srand(time(NULL));
```

```

7     int a = rand() % 11;
8     int b = rand() % 11;
9
10    if( (a + b) % 2 == 0){
11        cout << "Go to jail." << endl;
12    }
13
14    return 0;
15 }
16 }
```

```

16.
1 #include <iostream>
2 #include <stdlib.h>
3 #include <fstream>
4
5 using namespace std;
6
7 int main(){
8     string a, b, c;
9     int mystery;
10
11     srand(time(0));
12     mystery = rand() % 101;
13
14     ifstream food;
15     food.open("hello.txt");
16
17     fileIn >> a;
18     fileIn >> b;
19     fileIn >> c;
20
21     if (mystery > 66){
22         cout << a; << endl;
23     }
24     else if (mystery <= 66 && mystery > 33){
25         cout << b; << endl;
26     }
27     else if (mystery <= 33 && mystery >= 0){
28         cout << c; << endl;
29     }
30
31     return 0;
32 }
```

```

17.
1 #include <iostream>
2 #include <stdlib.h>
3 #include <fstream>
4 #include <string>
5
6 using namespace std;
7 int main(){
8     string a, b, c, d;
9 }
```

```
10     instream short;
11     short.open("short.txt");
12
13     fileIn a;
14     fileIn b;
15     fileIn c;
16     fileIn d;
17
18     if(a.length() == 6 && b.length() == 6 && c.length() == 6 && d.
19         length() == 6){
20         cout << "Not short" << endl;
21     } else {
22         cout <<< "Short" << endl;
23     }
24
25     return 0;
}
```