

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
15     return 0;
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          instream 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 && myster >= 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     return 0;
25 }
```