Sample Program 3.1

Average Age

Problem statement. Write five different versions of a program to average three ages and output the results to the console with a label. Each version should use a different sequence to total the three ages.

Solution #1.

```
#include <iostream>
using namespace std;
int main()
  int age1 = 19;
  int age2 = 21;
  int age3 = 30;
  int averageAge;
  averageAge = age1 + age2;
  averageAge = averageAge + age3;
  averageAge = averageAge / 3;
  cout << "The average of three ages is " << averageAge << endl;</pre>
}
Solution #2.
#include <iostream>
using namespace std;
int main()
  int age1 = 19;
  int age2 = 21;
  int age3 = 30;
  int averageAge;
  averageAge = age1 + age2 + age3;
  averageAge = averageAge / 3;
  cout << "The average of three ages is " << averageAge << endl;</pre>
}
```

```
#include <iostream>
using namespace std;
int main()
  int age1 = 19;
  int age2 = 21;
  int age3 = 30;
  int averageAge;
  averageAge = (age1 + age2 + age3) / 3;
  cout << "The average of three ages is " << averageAge << endl;</pre>
}
Solution #4.
#include <iostream>
using namespace std;
int main()
  int age1 = 19;
  int age2 = 21;
  int age3 = 30;
  int averageAge = (age1 + age2 + age3) / 3;
  cout << "The average of three ages is " << averageAge << endl;</pre>
}
Solution #5.
#include <iostream>
using namespace std;
int main()
  int age1 = 19;
  int age2 = 21;
  int age3 = 30;
  cout << "The average of three ages is ";</pre>
  cout << ((age1 + age2 + age3) / 3) << endl;</pre>
}
```

Solution #3.