1. Complete the outputs of the following program at a, b, c, and d.

```cpp
#include <iostream>
using namespace std;
int main()
{
    cout<"(a) " << 25 % 8 << "\t"
    cout<"(b) " << 8 / 25 << "\t"
    cout<"(c) " << 25 / 8 << "\t"
    cout<"(d) " << 8 % 25 << "\t"
    return 0;
}
```

(a) ... (b) ... (c) ... (d) ...

2. What is the output of the following program if the inputs are: u v x y z?

```cpp
#include <iostream>
using namespace std;
int main()
{
    char A, B, C, D, E;
    cin >> E >> D >> C >> B >> A;
    cout<"A <B <C <D <E <endl;
    cout<"B <C <D <E <endl;
    cout<"C <D <E <endl;
    cout<"D <E <endl;
    cout<"E <endl;
    return 1;
}
```

**Your Answer:**

...

...

...

...

...

3. What is the output of the following program if the inputs are: 1 2 3 4 5 6?

```cpp
#include <iostream>
using namespace std;
int main()
{
    double a, b, c, d, e, f, x, y;
    cout<"Enter a, b, c, d, e, and f: ";
    cin >> a >> b >> c >> d >> e >> f;
    x = (f - c * d / a) / (e - b * d / a);
    y = (c - b * x) / a;
    cout<"The solution is: " << endl;
    cout<"x = " << x << endl;<"y = " << y << endl;
    return 1;
}
```

**Your Answer:**

...

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5. What is the output of the following program if the three inputs are 50, -25, and 3?

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

int main()
{
  double initial_veloc, final_veloc, accel, time;

  cout << "Enter the initial velocity, \n" "acceleration (negative for braking)\n" "and braking time." << endl;
  cin >> initial_veloc >> accel >> time;

  if (abs(accel*time) > initial_veloc)
  {
    cout << "The car has come to a complete stop." << endl;
  }
  else
  {
    final_veloc = initial_veloc + accel * time;
    cout << "The car has not stopped. The final velocity is: " << final_veloc << endl;
  }
}
```

*Your Answer:*

```
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....
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```

6. What is the output of the following program, if the input is 59736?

```cpp
#include <iostream>
using std::cout;
using std::endl;

int main()
{
  int num;
  cout << "Enter a five-digit number: ";
  cin >> num;

  cout << num / 10000 << " ";
  num = num % 10000;
  cout << num / 1000 << " ";
  num = num % 1000;
  cout << num / 100 << " ";
  num = num % 100;
  cout << num / 10 << " ";
  num = num % 10;
  cout << num << endl;
  return 0;
}
```

*Possible Answers:*

a. 5 9 7 3 6
b. 4 5 3 3 9
c. 0 0 0 0 0
d. 6 3 7 9 5
7. Show the output displayed by the program below:

```cpp
#include <iostream>
using namespace std;
int main()
{
    cout << "My name is: " ;
    cout << "Doe Jane." << endl;
    cout << "I live in " ;
    cout << "Ann Arbor, MI" ;
    cout << "and my zip code is: " << <<48109 << endl;
return 0;
}
```

Your Answer:

```
My name is: Doe Jane.
I live in Ann Arbor, MI
and my zip code is: 48109
```

8. What is the output of the following program?

1. Evaluate the outputs for each one of the `cout` statements:

```cpp
#include<iostream>
using namespace std;
#include<cmath>
int main()
{
    cout<<pow (sqrt ( fabs (-3.5) ), 2) endl; // Output: ............
    cout<<ceil (3.25) endl; // Output: ............
    cout<<floor (3.75) endl; // Output: ............
    cout<<pow (-3.5, 1.0) endl; // Output: ............
return 0;
}
```

9. What is the output of the following program for Parts A, B, and C?

```cpp
#include <iostream>
using std::cout;
int main ()
{
    cout << "1 2 3 4\n"; // Part A
    cout << "1 " << "2 " << "3 " << "4\n"; // Part B
    cout << "1 ";
    cout << "2 ";
    cout << "3 ";
    cout << "4 " endl; // Part C
return 0;
}
```

<table>
<thead>
<tr>
<th>Part A:</th>
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<th>Part C:</th>
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10. What is the output of the following program if the inputs are: 5 and 13?

```cpp
#include<iostream>
#include<conio>
int main()
{
    int x, y;
    cout<<"Enter x: ";
    cin>>x;
    cout<<"The value entered is: "<<x<<"\n";
    cout<<"Enter y: ";
    cin>>y;
    cout<<"The value entered is: "<<y<<"\n";
    cout<<"The sum is: "<<(x+y)<<"\n";
    cout<<"The diff is: "<<(x-y)<<"\n";
    cout<<"The product is: "<<(x*y)<<"\n";
    cout<<"The quotient is: "<<(double)x/y<<"\n";
    cout<<"The modulus is: "<<(x%y)<<"\n";
    getch();
}
```

Your Answer: . . . . . . . . .
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11. What is the output of the following program if the input is: 456.123

```cpp
#include<iostream>
#include<iomanip>
#include<conio>

int main()
{
    double number;
    cout << "Enter a decimal number: ";
    cin >> number;
    cout << endl;
    cout << number << " rounded to two decimal places = ";
    cout << setiosflags(ios::fixed | ios::showpoint)<<setprecision(2)<< number << endl;
    getch();
}
```

Your Answer: . . . . . . . . .
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