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| CS1104: Programming Fundamentals | Fall 2021 |
| **Quiz 1**  **Solution** | |

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| **Q1: (30 pts) Write output of the following program segments.**   1. for (int x=1; x<=2; ++x) for(int y=1; y<=3; ++y)   cout<< “\n C++ Programming: “;  cout<< “\n Structured Programming: “;   |  | | --- | | C++ Programming:  C++ Programming:  C++ Programming:  C++ Programming:  C++ Programming:  C++ Programming:  Structured Programming: |  1. {int i=0, x=0;   for(i=1; i<10; i\*=2)  { x++;  cout<<”\t”<<x;  }  cout<<”\nx=”<<x;  }   |  | | --- | | 1 2 3 4  x=4 |  1. x=72; y=27; x=y; y=x;   cout<<“\nX = “<< x++ ;  cout<<“\nY = “<< y-- ;   |  | | --- | | X=27  Y=27 |  1. n=87;   while(n>=1)  {r=n%5; n=n/5; cout<<r;}   |  | | --- | | 223 |  1. {int i, j, x = 0;   for (i = 0; i < 5; ++ i)  {for (j = 0; j < i; ++ j) x+= (i + j-1);  cout<<”\ t” << x;  break;  }  cout<<”\ nx = ”<<x;  }   |  | | --- | | 0  x = 0 |  1. n=77;   do{r=n%8; cout<<r; n=n/8;} while(n>=1);   |  | | --- | | 511 |   **Q2: (30 pts) Write a program to print even numbers based on some condition from 44 to 88 in reverse order. (Use do-while Statement).**   |  | | --- | | #include<iostream>  using namespace std;  int main()  {  int i=88;  do  {  if(i%2==0)  cout<<"\n"<<i;  i=i-1;  }    while(i>=44);  } |   **Q3: (40 pts) Attempt the following MCQs.**   1. What is the output of following code?      |  | | --- | | a |  1. For what values of x and y, in the snippet, will produce the following two outputs:      |  | | --- | | b |  1. What is the output of the following program?      |  | | --- | | c |  1. What is the output of the following code?      |  | | --- | | a |  1. What is the output of the following program?      |  | | --- | | d |  1. What is the output of following code?      |  | | --- | | d |  1. What is the output of following code?      |  | | --- | | b |  1. What is the output of following code?      |  | | --- | | a |  1. What is the output of following code?      |  | | --- | | c |  1. What is the output of following code?      |  | | --- | | d | |