```
1. Make a Calendar (Horizontally as well as Vertically)
#include<iostream>
#include<string>
using namespace std;
bool is_leap(int year){
  return (year % 400 == 0) || (year % 100 != 0 && year % 4 == 0);
int print_month_horizontally(int n_days, int start_day){
  cout<<"Mon\tTue\tWed\tThu\tFri\tSat\tSun\n";</pre>
  for(int j=0; j<start_day; j++){</pre>
       cout<<"\t";
  for (int i=1; i<=n_days; i++){
    cout<<i<"\t";
    if ((i - 7 + start_day) \% 7 == 0){
       cout<<"\n";
    }
  int last_day = (start_day + n_days) % 7;
  return last_day;
int print month vertically(int n days, int start day){
  string week[7] = {"Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"};
  for (int i=0; i<7; i++){
    cout<<week[i]<<"\t";
       if (i < start_day) {</pre>
         cout<<"\t";
         int a = 7-start_day +1 + i;
         while (a <= n_days){
           cout<<a<<"\t";
           a = 7+a;
         }
       }
       else
         int b = i - start day + 1;
         while (b <= n_days){
           cout<<b<<"\t";
           b = 7 + b;
         }
       }
       cout<<"\n";
  int last_day = (start_day + n_days) % 7;
```

```
return last_day;
}
int first_day(int data, int year){
  if (year >= 2020){ // since data is of 2020 (reference year) we use 2020
    int x = year - 2020;
    int counter=0;
    for (int i=2020; i<year; i++){
      if (is leap(i)){
         counter++;
      }
    int norm = x - counter;
    return (data + norm + 2*counter) % 7;
  }else if(year == 2020){
    return data;
  } else {
    int x = 2020 - year;
    int counter = 0;
    for (int i=year; i<2020; i++){
      if (is_leap(i)){
         counter++;
      }
    }
    int norm = x - counter;
    return (7 - ((data - norm - 2*counter) % 7)) % 7;
  }
int main(){
  int data = 2; // 2 means wednesday which was Jan 1, 2020
  int year, feb_day=28;
  cout<<"Enter year: ";
  cin>>year;
  if (is_leap(year)){
    feb_day=29;
  }
  int first = first day(data, year);
  cout<<"\nHORIZONTAL 2020 CALENDAR\n-----;
  cout<<"\n\nJanuary\n\n";</pre>
  first = print_month_horizontally(31, first); //this function gives the day after last date in that
month
  cout<<"\n\nFebruary\n\n";</pre>
  first = print_month_horizontally(feb_day, first);
  cout<<"\n\nMarch\n\n";</pre>
  first = print_month_horizontally(31, first);
  cout<<"\n\nApril\n\n";</pre>
```

```
first = print_month_horizontally(30, first);
  cout<<"\n\nMay\n\n";
  first = print month horizontally(31, first);
  cout<<"\n\nJune\n\n";</pre>
  first = print month horizontally(30, first);
  cout<<"\n\nJuly\n\n";
  first = print month_horizontally(31, first);
  cout<<"\n\nAugust\n\n";
  first = print month horizontally(31, first);
  cout << "\n\nSeptember\n\";
  first = print_month_horizontally(30, first);
  cout<<"\n\nOctober\n\n";
  first = print_month_horizontally(31, first);
  cout<<"\n\nNovember\n\n";
  first = print_month_horizontally(30, first);
  cout<<"\n\nDecember\n\n";
  first = print month horizontally(31, first);
  cout<<"\nVERTICAL 2020 CALENDAR\n-----;
  first = first day(data, year);
  cout<<"\n\nJanuary\n\n";</pre>
  first = print_month_vertically(31, first); //this function gives the day after last date in that
month
  cout<<"\n\nFebruary\n\n";
  first = print_month_vertically(feb_day, first);
  cout<<"\n\nMarch\n\n";
  first = print_month_vertically(31, first);
  cout<<"\n\nApril\n\n";
  first = print month vertically(30, first);
  cout<<"\n\nMay\n\n";
  first = print month vertically(31, first);
  cout<<"\n\nJune\n\n";
  first = print_month_vertically(30, first);
  cout<<"\n\nJuly\n\n";
  first = print_month_vertically(31, first);
  cout<<"\n\nAugust\n\n";</pre>
  first = print_month_vertically(31, first);
  cout<<"\n\nSeptember\n\n";
  first = print_month_vertically(30, first);
  cout<<"\n\nOctober\n\n";
  first = print month vertically(31, first);
  cout << "\n\n\ovember\n\";
  first = print month vertically(30, first);
  cout<<"\n\nDecember\n\n";
  first = print_month_vertically(31, first);
  return 0;
```

| Enter year: 3000  HORIZONTAL 2020 CALENDAR |                            |                                 |                                 |                                  |                            |                            |  |  |  |
|--|----------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------|----------------------------|--|--|--|
| Januar                                     | У                          |                                 |                                 |                                  |                            |                            |  |  |  |
| Mon<br>6<br>13<br>20<br>27                 | Tue<br>7<br>14<br>21<br>28 | Wed<br>1<br>8<br>15<br>22<br>29 | Thu<br>2<br>9<br>16<br>23<br>30 | Fri<br>3<br>10<br>17<br>24<br>31 | Sat<br>4<br>11<br>18<br>25 | Sun<br>5<br>12<br>19<br>26 |  |  |  |
| Februa                                     | ry                         |                                 |                                 |                                  |                            |                            |  |  |  |
| Mon  | Tue                        | Wed                             | Thu                             | Fri                              | Sat<br>1                   | Sun<br>2                   |  |  |  |
| 3<br>10<br>17<br>24                        | 4<br>11<br>18<br>25        | 5<br>12<br>19<br>26             | 6<br>13<br>20<br>27             | 7<br>14<br>21<br>28              | 8<br>15<br>22              | 9<br>16<br>23              |  |  |  |
| March                                      |                            |                                 |                                 |                                  |                            |                            |  |  |  |
| Mon  | Tue                        | Wed                             | Thu                             | Fri                              | Sat<br>1                   | Sun<br>2                   |  |  |  |
| 3<br>10<br>17<br>24<br>31                  | 4<br>11<br>18<br>25        | 5<br>12<br>19<br>26             | 6<br>13<br>20<br>27             | 7<br>14<br>21<br>28              | 8<br>15<br>22<br>29        | 9<br>16<br>23<br>30        |  |  |  |

| April                |                           |                           |                            |                            |                            |                            |  |
|----------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|
| Mon<br>7<br>14<br>21 | Tue<br>1<br>8<br>15<br>22 | Wed<br>2<br>9<br>16<br>23 | Thu<br>3<br>10<br>17<br>24 | Fri<br>4<br>11<br>18<br>25 | Sat<br>5<br>12<br>19<br>26 | Sun<br>6<br>13<br>20<br>27 |  |
| 28<br>May            | 29                        | 30                        |                            |                            |                            |                            |  |
| Mon                  | Tue                       | Wed                       | Thu<br>1                   | Fri<br>2                   | Sat<br>3                   | Sun<br>4                   |  |
| 5                    | 6                         | 7                         | 8                          | 9                          | 10                         | 11                         |  |
| 12                   | 13                        | 14                        | 15                         | 16                         | 17                         | 18                         |  |
| 19                   | 20                        | 21                        | 22                         | 23                         | 24                         | 25                         |  |
| 26                   | 27                        | 28                        | 29                         | 30                         | 31                         |                            |  |
| June                 |                           |                           |                            |                            |                            |                            |  |
| Mon                  | Tue                       | Wed                       | Thu                        | Fri                        | Sat                        | Sun<br>1                   |  |
| 2                    | 3                         | 4                         | 5                          | 6                          | 7                          | 8                          |  |
| 9                    | 10                        | 11                        | 12                         | 13                         | 14                         | 15                         |  |
| 16                   | 17                        | 18                        | 19                         | 20                         | 21                         | 22                         |  |
| 23<br>30             | 24                        | 25                        | 26                         | 27                         | 28                         | 29                         |  |

| July   |     |     |     |     |     |     |  |
|--------|-----|-----|-----|-----|-----|-----|--|
| Mon    | Tue | Wed | Thu | Fri | Sat | Sun |  |
|        | 1   | 2   | 3   | 4   | 5   | 6   |  |
| 7      | 8   | 9   | 10  | 11  | 12  | 13  |  |
| 14     | 15  | 16  | 17  | 18  | 19  | 20  |  |
| 21     | 22  | 23  | 24  | 25  | 26  | 27  |  |
| 28     | 29  | 30  | 31  |     |     |     |  |
|        |     |     |     |     |     |     |  |
| August |     |     |     |     |     |     |  |
| Mon    | Tue | Wed | Thu | Fri | Sat | Sun |  |
|        |     |     |     | 1   | 2   | 3   |  |
| 4      | 5   | 6   | 7   | 8   | 9   | 10  |  |
| 11     | 12  | 13  | 14  | 15  | 16  | 17  |  |
| 18     | 19  | 20  | 21  | 22  | 23  | 24  |  |
| 25     | 26  | 27  | 28  | 29  | 30  | 31  |  |
|        |     |     |     |     |     |     |  |
| Septem | ber |     |     |     |     |     |  |
|        |     |     |     |     |     |     |  |
| Mon    | Tue | Wed | Thu | Fri | Sat | Sun |  |
| 1      | 2   | 3   | 4   | 5   | 6   | 7   |  |
| 8      | 9   | 10  | 11  | 12  | 13  | 14  |  |
| 15     | 16  | 17  | 18  | 19  | 20  | 21  |  |
| 22     | 23  | 24  | 25  | 26  | 27  | 28  |  |
| 29     | 30  |     |     |     |     |     |  |
|        |     |     |     |     |     |     |  |

| Octobe | r       |          |     |     |     |     |
|--------|---------|----------|-----|-----|-----|-----|
| Mon    | Tue     | Wed      | Thu | Fri | Sat | Sun |
|        |         | 1        | 2   | 3   | 4   | 5   |
| 6      | 7       | 8        | 9   | 10  | 11  | 12  |
| 13     | 14      | 15       | 16  | 17  | 18  | 19  |
| 20     | 21      | 22       | 23  | 24  | 25  | 26  |
| 27     | 28      | 29       | 30  | 31  |     |     |
|        |         |          |     |     |     |     |
| Novemb | er      |          |     |     |     |     |
| Mon    | Tue     | Wed      | Thu | Fri | Sat | Sun |
|        |         |          |     |     | 1   | 2   |
| 3      | 4       | 5        | 6   | 7   | 8   | 9   |
| 10     | 11      | 12       | 13  | 14  | 15  | 16  |
| 17     | 18      | 19       | 20  | 21  | 22  | 23  |
| 24     | 25      | 26       | 27  | 28  | 29  | 30  |
| D l-   |         |          |     |     |     |     |
| Decemb | er      |          |     |     |     |     |
| Mon    | Tue     | Wed      | Thu | Fri | Sat | Sun |
| 1      | 2       | 3        | 4   | 5   | 6   | 7   |
| 8      | 9       | 10       | 11  | 12  | 13  | 14  |
| 15     | 16      | 17       | 18  | 19  | 20  | 21  |
| 22     | 23      | 24       | 25  | 26  | 27  | 28  |
| 29     | 30      | 31       |     |     |     |     |
| VERTIC | AL 2020 | CALENDAR | ₹   |     |     |     |
|        |         |          |     |     |     |     |

| Januar | ry  |    |    |    |    |    |  |
|--------|-----|----|----|----|----|----|--|
| Mon    |     | 6  | 13 | 20 | 27 |    |  |
| Mon    |     |    |    |    |    |    |  |
| Tue    | 4   | 7  | 14 | 21 | 28 |    |  |
| Wed    | 1   | 8  | 15 | 22 | 29 |    |  |
| Thu    | 2   | 9  | 16 | 23 | 30 |    |  |
| Fri    | 3   | 10 | 17 | 24 | 31 |    |  |
| Sat    | 4   | 11 | 18 | 25 |    |    |  |
| Sun    | 5   | 12 | 19 | 26 |    |    |  |
|        |     |    |    |    |    |    |  |
|        |     |    |    |    |    |    |  |
| Februa | ary |    |    |    |    |    |  |
|        |     |    |    |    |    |    |  |
| Mon    |     | 3  | 10 | 17 | 24 |    |  |
| Tue    |     | 4  | 11 | 18 | 25 |    |  |
| Wed    |     | 5  | 12 | 19 | 26 |    |  |
| Thu    |     | 6  | 13 | 20 | 27 |    |  |
| Fri    |     | 7  | 14 | 21 | 28 |    |  |
| Sat    | 1   | 8  | 15 | 22 |    |    |  |
| Sun    | 2   | 9  | 16 | 23 |    |    |  |
|        |     |    |    |    |    |    |  |
|        |     |    |    |    |    |    |  |
| March  |     |    |    |    |    |    |  |
|        |     |    |    |    |    |    |  |
| Mon    |     | 3  | 10 | 17 | 24 | 31 |  |
| Tue    |     | 4  | 11 | 18 | 25 |    |  |
| Wed    |     | 5  | 12 | 19 | 26 |    |  |
| Thu    |     | 6  | 13 | 20 | 27 |    |  |
| Fri    |     | 7  | 14 | 21 | 28 |    |  |
| Sat    | 1   | 8  | 15 | 22 | 29 |    |  |
| Sun    | 2   | 9  | 16 | 23 | 30 |    |  |
|        |     |    |    |    |    |    |  |
|        |     |    |    |    |    |    |  |

| April |        |    |    |    |     |    |  |
|-------|--------|----|----|----|-----|----|--|
|       |        |    |    |    |     |    |  |
| Mon   |        | 7  | 14 | 21 | 28  |    |  |
| Tue   | 1      | 8  | 15 | 22 | 29  |    |  |
| Wed   | 2      | 9  | 16 | 23 | 30  |    |  |
| Thu   | 3      | 10 | 17 | 24 |     |    |  |
| Fri   | 4      | 11 | 18 | 25 |     |    |  |
| Sat   | 5      | 12 | 19 | 26 |     |    |  |
| Sun   | 6      | 13 | 20 | 27 |     |    |  |
|       |        |    |    |    |     |    |  |
|       |        |    |    |    |     |    |  |
| May   |        |    |    |    |     |    |  |
|       |        | _  |    |    | 2.5 |    |  |
| Mon   |        | 5  | 12 | 19 | 26  |    |  |
| Tue   |        | 6  | 13 | 20 | 27  |    |  |
| Wed   | 4      | 7  | 14 | 21 | 28  |    |  |
| Thu   | 1      | 8  | 15 | 22 | 29  |    |  |
| Fri   | 2      | 9  | 16 | 23 | 30  |    |  |
| Sat   | 3<br>4 | 10 | 17 | 24 | 31  |    |  |
| Sun   | 4      | 11 | 18 | 25 |     |    |  |
|       |        |    |    |    |     |    |  |
| June  |        |    |    |    |     |    |  |
| Julie |        |    |    |    |     |    |  |
| Mon   |        | 2  | 9  | 16 | 23  | 30 |  |
| Tue   |        | 3  | 10 | 17 | 24  | 50 |  |
| Wed   |        | 4  | 11 | 18 | 25  |    |  |
| Thu   |        | 5  | 12 | 19 | 26  |    |  |
| Fri   |        | 6  | 13 | 20 | 27  |    |  |
| Sat   |        | 7  | 14 | 21 | 28  |    |  |
| Sun   | 1      | 8  | 15 | 22 | 29  |    |  |
|       |        |    |    |    |     |    |  |
|       |        |    |    |    |     |    |  |

| July   |      |    |    |    |    |  |  |
|--------|------|----|----|----|----|--|--|
| Mon    |      | 7  | 14 | 21 | 28 |  |  |
| Tue    | 1    | 8  | 15 | 22 | 29 |  |  |
| Wed    | 2    | 9  | 16 | 23 | 30 |  |  |
| Thu    | 3    | 10 | 17 | 24 | 31 |  |  |
| Fri    | 4    | 11 | 18 | 25 |    |  |  |
| Sat    | 5    | 12 | 19 | 26 |    |  |  |
| Sun    | 6    | 13 | 20 | 27 |    |  |  |
|        |      |    |    |    |    |  |  |
|        |      |    |    |    |    |  |  |
| August | t    |    |    |    |    |  |  |
|        |      |    |    |    |    |  |  |
| Mon    |      | 4  | 11 | 18 | 25 |  |  |
| Tue    |      | 5  | 12 | 19 | 26 |  |  |
| Wed    |      | 6  | 13 | 20 | 27 |  |  |
| Thu    |      | 7  | 14 | 21 | 28 |  |  |
| Fri    | 1    | 8  | 15 | 22 | 29 |  |  |
| Sat    | 2    | 9  | 16 | 23 | 30 |  |  |
| Sun    | 3    | 10 | 17 | 24 | 31 |  |  |
|        |      |    |    |    |    |  |  |
| C t    | -L   |    |    |    |    |  |  |
| Septen | nber |    |    |    |    |  |  |
| Mon    | 1    | 8  | 15 | 22 | 29 |  |  |
| Tue    | 2    | 9  | 16 | 23 | 30 |  |  |
| Wed    | 3    | 10 | 17 | 24 | 30 |  |  |
| Thu    | 4    | 11 | 18 | 25 |    |  |  |
| Fri    | 5    | 12 | 19 | 26 |    |  |  |
| Sat    | 6    | 13 | 20 | 27 |    |  |  |
| Sun    | 7    | 14 | 21 | 28 |    |  |  |
|        |      |    |    |    |    |  |  |

|         |            |                |             |  |                     |              |           |               | _ |
|---------|------------|----------------|-------------|--|---------------------|--------------|-----------|---------------|---|
| 0ctobe  | er         |                |             |  |                     |              |           |               |   |
|         |            |                |             |  |                     |              |           |               |   |
| Mon     |            | 6              | 13          | 20   | 27                  |              |           |               |   |
| Tue     |            | 7              | 14          | 21   | 28                  |              |           |               |   |
| Wed     | 1          | 8              | 15          | 22   | 29                  |              |           |               |   |
| Thu     | 2          | 9              | 16          | 23   | 30                  |              |           |               |   |
| Fri     | 3          | 10             | 17          | 24   | 31                  |              |           |               |   |
| Sat     | 4          | 11             | 18          | 25   |                     |              |           |               |   |
| Sun     | 5          | 12             | 19          | 26   |                     |              |           |               |   |
|         |            |                |             |  |                     |              |           |               |   |
| Novemb  | nan        |                |             |  |                     |              |           |               |   |
| NOVEIIL | )CI        |                |             |  |                     |              |           |               |   |
| Mon     |            | 3              | 10          | 17   | 24                  |              |           |               |   |
| Tue     |            | 4              | 11          | 18   | 25                  |              |           |               |   |
| Wed     |            | 5              | 12          | 19   | 26                  |              |           |               |   |
| Thu     |            | 6              | 13          | 20   | 27                  |              |           |               |   |
| Fri     |            | 7              | 14          | 21   | 28                  |              |           |               |   |
| Sat     | 1          | 8              | 15          | 22   | 29                  |              |           |               |   |
| Sun     | 2          | 9              | 16          | 23   | 30                  |              |           |               |   |
|         |            |                |             |  |                     |              |           |               |   |
|         |            |                |             |  |                     |              |           |               |   |
| Decemb  | per        |                |             |  |                     |              |           |               |   |
| Mon     | 1          | 8              | 15          | 22   | 29                  |              |           |               |   |
| Tue     | 2          | 9              | 16          | 23   | 30                  |              |           |               |   |
| Wed     | 3          | 10             | 17          | 24   | 31                  |              |           |               |   |
| Thu     | 4          | 11             | 18          | 25   |                     |              |           |               |   |
| Fri     | 5          | 12             | 19          | 26   |                     |              |           |               |   |
| Sat     | 6          | 13             | 20          | 27   |                     |              |           |               |   |
| Sun     | 7          | 14             | 21          | 28   |                     |              |           |               |   |
|         |            | 1.0.40         | 2)          |  |                     | 270          |           |               |   |
|         |            | rned 0 (0:     |             | ecution                                      | time : 5            | .3/2 s       |           |               |   |
|         |            | y to cont      |             | a mana a sa | hat are established |              | الداد موم | الحاجم المحاج | 4 |
| . , (   | SIVED ATTA | IV OT INTEGERS | arrange the | array such t                                 | nat even int        | HUBER ARE OF | TUDE SIME | 4DO 000       |   |

2. Given array of integers, arrange the array such that even integers are on one side and odd ones in the other. Don't use another array.

```
Solution 1:
#include<iostream>
using namespace std;

void swape(int *x, int *y){
  int temp;
  temp = *x;
```

```
*x = *y;
  *y = temp;
int main(){
  int a[30] = {21, 44, 65, 35, 65, 86, 254, 75, 70, 57, 35, 44, 83, 92, 84, 54, 20, 65, 73, 24, 46, 923,
934, 43, 2, 59, 27, 40, 02, 46};
  int n = 30;
  int swaps = 1;
  while(swaps != 0){
    swaps = 0;
    for (int l=0, h=1; l<n-1, h<n; l++, h++){
      if (a[1] \% 2 != 0 \&\& a[h] \% 2 == 0){
         swape(&a[I], &a[h]);
         swaps++;
      }
    }
  }
  for (int i=0; i<n; i++){cout<<a[i]<<" ";}
  cout<<"\n";
  return 0;
44 86 254 70 44 92 84 54 20 24 46 934 2 40 2 46 21 65 35 65 75 57 35 83 65 73 923 43 59 27
Process returned 0 (0x0)
                              execution time : 0.048 s
Press any key to continue.
Solution 2:
#include<iostream>
using namespace std;
void swape(int *x, int *y){
  int temp;
  temp = *x;
  *x = *y;
  *y = temp;
int main(){
  int a[30] = {21, 44, 65, 35, 65, 86, 254, 75, 70, 57, 35, 44, 83, 92, 84, 54, 20, 65, 73, 24, 46, 923,
934, 43, 2, 59, 27, 40, 02, 46};
  int n = 30;
  // Given below is another solution which use way less swaps
  bool over = false;
  int swapes = 0;
  for (int i=0; i<n; i++){
    if (a[i] % 2 != 0){
      for (int j=n-1; j >= i; j--){
         if (a[i] \% 2 == 0){
```

```
swape(&a[i], &a[j]);
           swapes++;
           break;
        } else if (j==i) {
           over = true;
      }
    if (over){
      break;
    }
  for (int i=0; i<n; i++){cout<<a[i]<<" ";}
  cout<<"\n"<<swapes;
  return 0;
46 44 2 40 2 86 254 934 70 46 24 44 20 92 84 54 83 65 73 35 57 923 75 43 65 59 27 35 65 21
Process returned 0 (0x0)
                              execution time : 0.056 s
Press any key to continue.
    3. Write the swap function in multiple ways.
#include<iostream>
using namespace std;
void swap1(int x, int y){ //call-by-value
  int temp = x;
  x = y;
 y = temp;
void swap2(int &x, int &y){ // call-by-reference Using Alias x and y
 int temp = x;
  x = y;
  y = temp;
void swap3(int *x, int *y) { // call-by-pointer
 int temp = *x;
  *x = *y;
  *y = temp;
void swap4(int &x, int *y) {
  int temp = x;
  x = *y;
  *y = temp;
```

```
void swap5(int *x, int &y) {
  int temp = *x;
  *x = y;
  y = temp;
// void swap6(int *x, int *y) {
// int *temp;
// *temp = *x; // Assigning value to a pointer that wasn't intialised
//
             // is not encouraged however newer compilers will work
//
             // in my machine it crashed
// *x = *y;
// *y = *temp;
//}
int main(){
  int a=3, b=6;
  cout<<"a = "<<a<<", b = "<<b<<endl;
  swap1(a, b); // Since it is call by value It won't swap the original a and b.
  cout<<"After Swap1"<<endl;</pre>
  cout<<"a = "<<a<<", b = "<<b<<endl;
  swap2(a, b);
  cout<<"After Swap2"<<endl;
  cout<<"a = "<<a<<", b = "<<b<<endl;
  swap3(&a, &b);
  cout<<"After Swap3"<<endl;</pre>
  cout<<"a = "<<a<<", b = "<<b<<endl;
  swap4(a, &b);
  cout<<"After Swap4"<<endl;
  cout<<"a = "<<a<<", b = "<<b<<endl;
  swap5(&a, b);
  cout<<"After Swap5"<<endl;</pre>
  cout<<"a = "<<a<<", b = "<<b<<endl;
  return 0;
```

```
a = 3, b = 6
After Swap1
a = 3, b = 6
After Swap2
a = 6, b = 3
After Swap3
a = 3, b = 6
After Swap4
a = 6, b = 3
After Swap5
a = 3, b = 6

Process returned 0 (0x0) execution time : 0.050 s
Press any key to continue.
```