Test 1 option 1

The task must be completed in the VS 2019 environment.

For given class student create a parametrized constructor, copy constructor, destructor, overload operators =, << . Operator << inserts class members in *cout streem* and operator >> extracts data from *cin stream* and *assigns* to class members.

Use operator *new* to allocate memory for name and surname text arrays.

```cpp
class student
{
      char *name;
      char *surname;
      int birth_year;
public:

};
```

Your class must woks properly in the follow code:

```cpp
int main()
{
      student * pst[3];

      try
      {
            pst[0] = new student ("John", "Smith ", 2001);
            pst[1] = new student ("Agata", "Cristi", 2002);
            pst[2] = new student ("James", "Bond", 1999);
      }
      catch (bad_alloc)
      {
            // write your code
      }

      for (int i = 0; i < 3; ++i)
            cout << *pst[i];

      // swap the first and third elements of the array
      student tmp((char *)("unknown"), (char *)("unknown"), 0);  //temporary object
      tmp = *pst[0];
      *pst[0] = *pst[2];
      *pst[2] = tmp;

      for (int i = 0; i < 3; ++i)
            cout << *pst[i];

      //test input of data.
      cin >> tmp;
      cout << tmp;

      for (int i = 0; i < 3; ++i)
      {
            delete pst[i];
            pst[i] = NULL;
      }

      system("pause");
      return 0;
}
```