```
package structure;

import structure.exceptions.HexException;

public class HEXnumber {

	public String HexNumber;
	private int[] IntHexNumber;

	public HEXnumber (String s) throws HexException
	{

		s.toUpperCase();

		for(char symbol : s.toCharArray() )
		{

			if( ((symbol>='F')&&(symbol<'A'))
||((symbol<='0')&&(symbol>='9'))){

				throw new HexException(new String("Fucking
idiot u think it's Dex number?"));
			}

		}

		HexNumber    = new String(s);
		IntHexNumber = new int[HexNumber.length()];

		char sym;
		for(int i=0; i<HexNumber.length(); ++i)
		{
			sym = HexNumber.charAt(i);
			if (( sym <='9') && ( sym >='0')) IntHexNumber[i] =
sym -'0';
			if (( sym <='F') && ( sym >='A')) IntHexNumber[i] =
sym - 'A' + 10;

		}

	}

	public HEXnumber (int s)
	{

		this.HexNumber.valueOf(s);

	}
```

```
	public HEXnumber ()
	{

		this.HexNumber.valueOf(0);

	}


	public HEXnumber Plus (HEXnumber num1, HEXnumber num2) throws
HexException
	{

		HEXnumber result = new HEXnumber("0");

		if((num1 == null)||(num2 == null)){
			throw new HexException(new String("Fucking idiot u
think it's Dex number?"));
		}

		int max;
		int diff;
		int length1 = num1.IntHexNumber.length;
		int length2 = num2.IntHexNumber.length;

		if(length1>length2){
			max = length1;
			diff = max - length2;
		}
		else{
			max = length2;
			diff = max - length1;
		}

		result.IntHexNumber = new int[max];
		max -=1;
		if(length1>length2){

			for(int i=max; i > (-1); --i) result.IntHexNumber[i]
= num1.IntHexNumber[i] + num2.IntHexNumber[i-diff];

		}
		else{

			for(int i=max; i > (-1); --i) result.IntHexNumber[i]
= num1.IntHexNumber[i-diff] + num2.IntHexNumber[i];

		}

		for(int i=max; i > (-1); --i){
```

```
                if(result.IntHexNumber[i]>15){

                    result.IntHexNumber[i] -= 15;
                    result.IntHexNumber[i-1] += 1;
                }

            }

            return result;
        }



}
```