Cecylia Błaszczak

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Laboratorium 6

Zadanie 1

```
#include <iostream>
#include <stdlib.h>
#include <time.h>


using namespace std;
void printTab(int * tab, unsigned int size){
   for(int i=0; i<size;i++){
      cout<<tab[i]<<endl;
   }
   cout<<endl;
};


void reverseTab(int * tab, unsigned int size){
   int tmpTab[size];
   for(int i=0,j=size-1;i<size;i++,j--){
      tmpTab[i]=tab[j];
   }
   for(int i=0; i<size;i++)
      tab[i]=tmpTab[i];
};

}
int main()
{
   srand (time(NULL));
   unsigned int rozmiar;
   cout<<"Podaj ilosc elementow w tablicy"<<endl;
   cin>>rozmiar;
   int tablica[rozmiar];
   for(int i=0;i<rozmiar;i++){
      tablica[i]=rand()%100+1;
   }
   printTab(tablica,rozmiar);
   reverseTab(tablica,rozmiar);
   printTab(tablica,rozmiar);


   return 0;
```

Zadanie 2

```
#include <iostream>
#include <string.h>


using namespace std;

void convertCase(char text[]){
   for(int i=0; i<strlen(text);i++){
      int letter = (int)text[i];
      if(letter>=65 && letter <=90){
         letter+=32;
         text[i]=(char)letter;
      }
      else if(letter>=97 && letter <=122){
         letter-=32;
         text[i]=(char)letter;
      }
   }
};

int main()
{
   cout <<"Wpisz znaki: "<<endl;
   char text[20];
   cin>>text;
   convertCase(text)

   for(int i=0; i<strlen(text); i++){
      cout<<text[i];
   }
   return 0;
}
```

Zadanie 3

```
#include <iostream>

#include <cstring>

using namespace std;

float add(float x, float y)

{

   return x+y;

};

float subtract(float x, float y)

{

   return x-y;

};

float multiply(float x, float y)

{

   return x*y;

};

float divide(float x, float y)

{

   return x/y;

};

float calculate(float x, float y, char *
operations[], unsigned int size)

{

   float result=0;

   for(int i=1; i<size; i++)

   {

      if (strncmp(operations[i], "add",
strlen(operations[i])) == 0)

      {

         result+=add(x,y);

      }

      else if (strncmp(operations[i], "sub",
strlen(operations[i])) == 0)

      {

         result+=subtract(x,y);

      }

      else if (strncmp(operations[i], "mul",
strlen(operations[i])) == 0)

      {

         result+=multiply(x,y);

      }

      else if (strncmp(operations[i], "div",
strlen(operations[i])) == 0)

      {

         result+=divide(x,y)

  }

  }

   return result;

};

int main(int argc, char * argv [])

{

   float x,y;

   cout<<"Podaj dwie liczby: "<<endl;

cin>>x>>y;
cout<<calculate(x,y,argv,argc)<<endl;

 return 0;}
```