Rezolvari Tutoriat 7

Programarea Calculatoarelor

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1

```
int compress(char* sir, int lungime) {
	int i, k, rezultat = 0;
	for (i=0; i<lungime-1; i++) {
	k = 0;
	while (sir[i] == sir[i+1] && i<lungime-1) {
		k++;
		i++;
	}
	rezultat++;
	if (k > 1) {
		int nrCifre = 0;
		while (k) {
			nrCifre++;
			k/=10;
		}
		rezultat+=nrCifre;
	}
	}
	if (sir[lungime-1]!=sir[lungime-2])
	rezultat++;
	return rezultat;
}
```

2

```
bool rotire(char* X, char* Y) {
	int nrMaxim = strlen(X);
	if (strlen(X) != strlen(Y))
	return false;
	if (strcmp(X,Y) == 0) return true;
	while (nrMaxim-1) {
	nrMaxim--;
	char c = X[0];
	int i;
	for (i=0; i<strlen(X)-1; i++)
		X[i] = X[i+1];
	X[strlen(X)-1]=c;
	if (strcmp(X,Y) == 0) return true;
	}
	return false;
}
```

3

```
bool izomorfe(char* X, char* Y) {
	int frX[256] = {0}, frY[256] = {0}, n = strlen(X);
```

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```
        for (int i = 0; i < n; ++i) {
            if (frX[X[i]] != frY[Y[i]])
                return false;
            frX[X[i]] = i + 1;
            frY[Y[i]] = i + 1;
        }
        return true;
}
```

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