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**T.C.**

**ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ**

**MÜHENDİSLİK FAKÜLTESİ**

**BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ**

# ALGORİTMA ANALİZİ

# Dizi Boyutlandırma Analizi

**RESUL ÖNDER**

**1 2 0 4 0 1 0 2 0**

**0 4/ 0 4 /2 0 1 6 --pazartesi**

#include <cstdlib>

#include <iostream>

using namespace std;

class dynamicArray{

public:

dynamicArray(int initSize=0):theSize(initSize),theCapacity(initSize + 1),s(0)

{

object = new int[theCapacity];

cout <<"ilk kapasite =" <<theCapacity;

}

int size(){return theCapacity;}

void add(int x){

if(s==size()) resize();

object[s] = x ;

s++;

}

int resize(){

cout<<endl<<"yer degisimi yapiliyor"<<endl;

int s = theSize;

int \*eski\_sayilar = object ;

object = new int[theCapacity+1];// theCapacity\*2 and theCapacity\* theCapacity

for(int k = 0 ; k<s ; k++){

object[k] = eski\_sayilar[k];

}

theSize = s ;

sayac++;

theCapacity =theCapacity+1; // theCapacity\*2 and theCapacity\* theCapacity

cout<<"--yeni kapasite"<<theCapacity<<endl;

}

int sayaç=0;

private:

int theSize;

int s;

int theCapacity;

int \*object;

};

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

{

dynamicArray myD = dynamicArray();

for(int k =0 ; k<100 ; k++){

myD.add(4);

}

cout<<"sayac ="<<myD.sayac;

system("PAUSE");

return EXIT\_SUCCESS;

}

