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//Joon Im
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//Demo:9:00
#include<iostream>
#include<string>
#include<cstring>
#include<iomanip>
using namespace std;
int main()
{
const int SIZE=3;
int grade[SIZE]={10,20,30};
//Create an array of pointer of type integer. Name the array aptr
// A. YOUR CODE
int* aptr [SIZE];
//B. Assign each array element of aptr to point to array elements of array grade.
//YOUR CODE
for(int i = 0; i < SIZE; i++)
{
*(aptr + i) = &grade[i];
}

for(int i =0;i<SIZE;i++)
{ cout<<"Value of grade["<<i<<" ] = ";

//C. Output the the grade content using aptr array
cout << *aptr[i] << endl;

//D. Output the address of array element aptr
//YOUR CODE
cout << "Address of aptr = " << &aptr[i] << endl;

//E. Output the content of aptr
//YOUR CODE
cout << "Content of aptr = " << aptr[i] << endl;

//F. Output the address of array element of array grade
//YOUR CODE
cout << "Address of grade = " << &grade[i] << endl;
cout << endl;
}
return 0;
}

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Value of grade[0] = 10
Address of aptr = 0x7ffd99006140
Content of aptr = 0x7ffd9900615c
Address of grade = 0x7ffd9900615c

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Value of grade[1] = 20
Address of aptr = 0x7ffd99006148
Content of aptr = 0x7ffd99006160
Address of grade = 0x7ffd99006160

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Value of grade[2] = 30
Address of aptr = 0x7ffd99006150
Content of aptr = 0x7ffd99006164
Address of grade = 0x7ffd99006164

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