```
#include<stdio.h>
int main()
  int a[]={2,4,6,8,10},y=1,*p;
  p=&a[1];
  printf("a = %p\np = %p\n",a,p);
  for(int i = 0; i < 3; i++)
    y += *(p+i);
  printf("y = %d\n\n",y);
  int b[5]={1,2,3,4,5};
  int *ptr=(int*)(&b+1);
  printf("b = %p\nb+4 = %p\nptr = %p\n",b,b+4,ptr);
  printf("%d,%d\n",*(b+1),*(ptr-1));
  return 0;
```

Run the program and explain the result to SA.

```
#include <iostream>
using namespace std;
int main()
  int a[][4]={1,3,5,7,9,11,13,15,17,19};
  int *p=*(a+1);
  p += 3;
  cout << "*p++ = " << *p++ << ",*p = " << *p << endl;
  const char *pc = "Welcome to programming.", *r;
  long *q = (long *)pc;
  q++;
  r = (char *)q;
  cout << r << endl;
  unsigned int m = 0x3E56AF67;
  unsigned short *pm = (unsigned short *) &m;
  cout << "*pm = " << hex << *pm << endl;
  return 0;
```

Run the program and explain the result to SA.

```
#include <stdio.h>
int main()
  int aa[2][5] = { 1,2,3,4,5,6,7,8,9,10 };
  int* paa1 = (int*)(&aa + 1);
  int* paa2 = (int*)(*(aa + 1));
  printf("%d,%d\n", *(paa1 - 1), *(paa2 - 1));
  char* str[] = { "work", "at", "alibaba" };
  char** ps = str;
  ps++;
  printf("%s\n", *ps);
  return 0;
```

Run the program and explain the result to SA.

Write a program that use **new** to allocate the array dynamically for five integers.

- The five values will be stored in an array using a pointer.
- Print the elements of the array in reverse order using a pointer.