Behold the program to the right. We compile it to the file a.out and #include <iostream> then we run it with: #include <vector> using namespace std; UNIX> echo 30 50 70 | ./a.out int main() { vector <int *> v1; • **Question 1**: What is the first line of output? vector <int> v2; • **Question 2**: What is the second line of output? vector <int> *v3; • **Ouestion 3**: What is the third line of output? int i; • **Question 4**: What is the fourth line of output? int *p; • **Question 5**: What is the fifth line of output? v3 = &v2;• **Question 6**: What is the sixth line of output? while (cin >> i) { • Question 7: What is the seventh line of output? p = new int; • **Question 8**: What is the eighth line of output? Enter a dash if *p = i; there is no eighth line. v1.push back(p); v2.push_back(*p); • Question 9: What is the nine line of output? Enter a dash if } there is no ninth line. for (i = 0; i < v1.size(); i++) *(v1[i]) += 2;</pre> for (i = 0; i < v2.size(); i++) v2[i] += 10;</pre> for (i = 0; i < v1.size(); i++) cout << *(v1[i]) << endl; for (i = 0; i < v2.size(); i++) cout << v2[i] << endl;</pre> for (i = 0; i < v3->size(); i++) cout << v3->at(i) << endl;</pre> return 0;

We start with all three vectors being empty, then v3 points to v2:



We then read 30. A new integer is allocated and set to 30. A pointer to that is put onto v1, And a copy of it is put onto v2:



We then read 50. A new integer is allocated and set to 50. A pointer to that is put onto v1, And a copy of it is put onto v2:



We then read 70. A new integer is allocated and set to 70. A pointer to that is put onto v1, And a copy of it is put onto v2:



We add two to every value pointed to by v1:



We add 10 to every value in v2:





