```
Answerc
```

X9/21,7

```
([M[1]]) = [M[1]q];
 # include < iostream)
# include < vectors)
# include Calgorithm>
using namespace std; and to the on ent court
 struct Item?
                     : [] [M] [M] [ = 2877 tn]
  int weight;
                                     1 W=Wto
  int value;
5:56-1:0< 2901 8 8 MH O<1 1/1-1 this 1 ord
1 Peturon the maximum value that can be put in a knapsack
 of capacity wint knapsack (Int W, vector & Item) and items,
vector < string> and chosen_ items) & sunitarior
  int N = Hem, size () including in motifying !
 vector < vector <int>>dp(N+1, Vector <int> (W+1));
11 Build table. in bottom up manner 11 some 11
 For (int i=0; 1 <= N; 1++) {
 forc(int W 201 WZ=W; W++) 2moti - W= W
  if (i= = 01 W= = 0)
  dp[i][w]=03
 else if (Homs [i-1] Weight L=W)
 dp[i][w] = max (items[i-1] value + dp[i-1] [w-items]
[1-1] [W-Homs [1-1]. Weight], ap [1-1] [W]);
```

```
else.
       如门侧二中门到侧;
                                   Knownten > shulori +
                                     Knotosva shudori &
                                  4 Include Sill foreithmy
     11 stories the result of knapsack song common prime
                                       struct Hemi
      int ros = dp[N][W];
                                         the weight;
      int W=W!
                                         : sulst tri
     forc lint i= N; i>0 and & 8 8 roes>0; i--)?
                  of agracity wint knopsock that is the
P50018
      continue; (emoti mosano bra sprinte > ortoor
      dse 1
         11 This Hem is included (.) seizement = 11 this
       chosen items puenback (to string(1)); littem intex,
       usince this weight is included, its value is deduce
        ros = ros - items [i-1]. value; withis
        WZW-items [i-1]. Weight; 10==i) 4
                                  :0=[W][1]16
     reverse (chosen item begin () chosen items . on
      Lethon of Milmibian. [1-1] small-MI [1-1
```

Henry

```
int main() 1
  Il Weight and value of Home. The index will reprost
  the Hom name vectors Litems items= 222 203,21,75
  49,1分,208,22,65多。
  Part W=6;
  vector (string) chosen items;
 int max value = knap sack ( W, Home, choson items,
 cout << 1 Marison value in knopsack=1/2 kman_
                                          valuecc
                                           end 15
coutec/ Hems to be chosen (by index): ";
Forc (cosst-auto & item index: chosen_Homs)
  couted item_index<<11 11;
  rout LC Hem-indexLe 11
   cout LL end];
    return 0;
```

output is: 31