1906534 (2) For (ind j = low; j <= high-1; j++) { if (avor Ej J & Bivot) & Swap (2 aver [i], 2 aver [j]); 5 Swab (2 avor [i+1], 2 avor [high]); reteven (i+1); void quick Sort (int over [], int low, int ligh)? if (low < high) ? int bi = partition (avor, law, high); quicksost (avor, low, fi-1); quick Sost (avor, Bi+1, high); int main () { int i, n', clock-t Stort; end;

double total-chutime; frint (66 Enter Size :?)); Scanf (66 y. 2 97, 8 m); int a [n]; Start = clock (); for (i=0; i<u; i++){ a[i]= (rand (),50000); Brint & (66% & 1+"; a [i]);

brintf ("in & Elements generated random. - ly.00/n3); quickSort (a, 0, n-1);

frintf ("In Array after quick Sortini) for (i=0; i<n; i++) frint (and 1+" sa [i]);

end = clock();

frittf ("Inin CPV Time Calculation: "); total-Coutine= ((double) (and-Start));
brintf(66)n Total CPU time: 40fms?; total-cou);

total-Cputime = ((double) (end-stoot)/ 1906534(9)
clocks-bes_SEC); bointf ("In Total CPU time: % f S", total-(puting) Jatumo; 05.2 WAP to implementation of fractional knapsack algorithm. Program: # include < Stdio. h> Struct Knabé int up, w; float v, n; 3. Void frint (Struct knap III, int n) { int isj foint f (66 m?); for (i=0; i<n; i++) Brintf(66/4. 2 %. 0.2f 1.0.2f 1/10?;

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l [i]. p, l [i] w, l [i].x, l [i].x);

Float Knapsack (int no ind m) { int ing; Float Brofit = 0.0; Struck knob K[10], t; for (i=0; ixn; i++) { frint f (" Enter Brice and weight of item %d: "; (+1); Scanf (64.24d, 2 K [i]. p. 2 K [i]. w); K[i]. v= (float) (K[i]. B) /(float) (K[i].w); brintf(K,n); frindfl"At first avoiay look like \n"); for li=0; i<n-1; i++)fill for (j=i, j<n; j++)& if (K[i]·8 < K[j]v8) { t=K[i]; K[i]= K[j];

frint f (K, n);
frint f (K, n);
R\n^2);

fooli=0; i<n; i++){

if (K[i]·w<m){

 $K \ Li J. x = 1;$ $m - = K \ Li J. \omega;$

3.

else {

K[i].X = (float)(m) /(float)(K[i].w);

20

fortit += (float)(K[i]. B) * K[i].x;

frint f(Kon);

frint fl'éfinally the wordy looks like \non;

3

int main () {

brindf ("Enter Total item:");

Scanf ("6./.d"; &n);

brindf ("Enter Size of knapsack:");

Scanf ("6./.d"; &m);

Scanf ("6./.d"; &m);

brintf ("("");

brintf ("" Maximum foofit will be!

4.0.2f (n", Knapsack(n,m));

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