

Knapsack Calculator

Given a set of items, each with a weight and a value.

Knapsack algorithm determine the number of each item to include in a collection so that the total weight is less than or equal to a given limit and the total value is as large as possible.

Whereas in **Knapsack 0-1 algorithm** items cannot be divided which means either should take the item as a whole or should leave it.



1000



100

Generate Table

Items	Profit	Weight
Item 0	47	50
Item 1	36	16
Item 2	68	36
Item 3	64	36
Item 4	61	50
Item 5	50	41
Item 6	46	45
Item 7	44	28
Item 8	87	47
Item 9	37	12
Item 10	36	19
Item 11	44	46
Item 12	60	29
Item 13	62	33
Item 14	97	19
Item 15	36	30
Item 16	58	39
Item 17	86	22
Item 18	61	41
Item 19	90	12
Item 20	68	28

Item 21	33	44
Item 22	53	23
Item 23	87	44
Item 24	76	18
Item 25	68	31
Item 26	52	44
Item 27	60	50
Item 28	76	24
Item 29	46	21
Item 30	44	35
Item 31	81	22
Item 32	45	46
Item 33	78	45
Item 34	77	12
Item 35	66	50
Item 36	38	32
Item 37	91	43
Item 38	48	13
Item 39	81	19
Item 40	43	35
Item 41	70	31
Item 42	79	27
Item 43	57	15
Item 44	41	27
Item 45	38	48
Item 46	62	17
Item 47	70	17
Item 48	43	43
Item 49	62	16
Item 50	45	46

Item 51	81	20
Item 52	68	20
Item 53	91	42
Item 54	79	47
Item 55	53	22
Item 56	80	28
Item 57	78	45
Item 58	59	50
Item 59	67	39
Item 60	42	25
Item 61	54	46
Item 62	64	24
Item 63	53	31
Item 64	92	37
Item 65	81	35
Item 66	67	40
Item 67	61	45
Item 68	74	40
Item 69	40	19
Item 70	62	27
Item 71	37	26
Item 72	73	16
Item 73	84	33
Item 74	67	13
Item 75	41	49
Item 76	60	47
Item 77	73	26
Item 78	60	49
Item 79	96	26
Item 80	83	12

Item 81	<div>91</div>	<div>16</div>
Item 82	<div>51</div>	<div>15</div>
Item 83	<div>66</div>	<div>26</div>
Item 84	<div>50</div>	<div>16</div>
Item 85	<div>64</div>	<div>14</div>
Item 86	<div>66</div>	<div>33</div>
Item 87	<div>87</div>	<div>16</div>
Item 88	<div>84</div>	<div>44</div>
Item 89	<div>79</div>	<div>27</div>
Item 90	<div>61</div>	<div>29</div>
Item 91	<div>50</div>	<div>43</div>
Item 92	<div>98</div>	<div>25</div>
Item 93	<div>96</div>	<div>46</div>
Item 94	<div>44</div>	<div>20</div>
Item 95	<div>39</div>	<div>48</div>
Item 96	<div>47</div>	<div>48</div>
Item 97	<div>52</div>	<div>42</div>
Item 98	<div>53</div>	<div>27</div>
Item 99	<div>87</div>	<div>42</div>

Calculate

Knapsack

Resultant Profit

3259.37

Density

7.50,6.92,6.42,5.69,5.44,5.15,5.11,4.57,4.56,4.26,4.22,4.

Profit

Weight

Resultant Solution

Knapsack 0-1

[illegible]

<https://augustineaykara.github.io/Knapsack-Calculator/>

Resultant Profit

Profit

47,36,68,64,61,50,46,44,87,37,36,44,60,62,97,36,58,86,

7/8

50,16,36,36,50,41,45,28,47,12,19,46,29,33,19,30,39,22,

Resultant Solution

0,1,0,0,0,0,0,0,0,1,0,0,0,0,1,0,0,1,0,1,1,0,1,0,1,1,0,0,1,1,0,