BITS Pilani, Dubai Campus

Dubai International Academic City, Dubai

I Semester 2020-21

CS F222 Discrete Structures for Computer Science

Assignment - II

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Section No: 2

Ques No: 21

Ques Statement: Write a program that generates all combinations of the elements {1, · · · , n}.

Where my solution can be useful:

Suppose the manager at a fast-food restaurant wants to launch a new combo value pack at a lesser price to lure customers, then he can use combinations with repetition.

He has 15 items on the menu out of which he can use 5 items to make a value offer pack.

Then using the formula, he has options or 11,628 different options!

By carefully examining the combinations, he may choose the combination which has yields highest profit and launch the product.