

# Convert strings to character sets and vice versa

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The following code converts strings into character sets and vice-versa.

**Note:** this code works only for non-Unicode versions of Delphi (i.e. Delphi 2007 and earlier) where **string** = *AnsiString*. For Delphi 2009 and later use *TSysCharSet* instead of *TCharSet* and replace all occurrences of **string** with *AnsiString*.

```
type
  TCharSet = set of char;

function StringToCharSet(const Txt: string): TCharSet;
var
  CP: PChar;
begin
  Result := [];
  if Txt = '' then
    Exit;
  CP := PChar(Txt);
  while CP^ <> #0 do
  begin
    Include(Result, CP^);
    Inc(CP);
  end;
end;

function CharSetToString(const Chars: TCharSet): string;
var
  I: Integer;
begin
  Result := '';
  for I := 0 to 255 do
    if Chr(I) in Chars then
      Result := Result + Chr(I);
  end;
```

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